

TRANSPORTATION CABINET
Department of Highways
Frankfort, Kentucky 40622

PROPOSAL NO. _____
PROJECT CODE NO. 03-0776

LETTING OF DECEMBER 12, 2003
Sealed Bids will be received in the
Division of Contract Procurement and/or
the Auditorium located on the 1st Floor
of the State Office Building until
10:00 A.M., EST, on DECEMBER 12, 2003.
Bids will be publicly opened and read
at 10:00 A.M., EASTERN STANDARD TIME.

PROJECT IDENTIFICATION AND DESCRIPTION:

PULASKI COUNTY, FD04 100 0070 002-003

The Yosemite-Eubank Road (KY 70) Reconstruct KY 70 at the CNO and TP Railroad at Eubank to
replace the Railroad U-pass with a bridge over the railroad, a distance of 0.657 mile.

Grade, Drain and Asphalt Surface.

Status Report Item No. 8-201.00.

(8)

GRAPHIC COORDINATES:

LATITUDE - 37° 40' NORTH

LONGITUDE - 84° 40' WEST

COMPLETION DATE ESTABLISHED FOR PROJECT: NOVEMBER 30, 2004

LIQUIDATED DAMAGES: SEE STANDARD SPECIFICATIONS

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

(Check guaranty submitted: Cashier's Check ☐ Certified Check ☐ Bid Bond ☐)

BID BONDS WHEN SUBMITTED WILL BE RETAINED WITH THE PROPOSAL.

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PART

- I SCOPE OF WORK
- II SPECIAL PROVISIONS APPLICABLE TO PROJECT
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- IV INSURANCE
- V STATEMENT OF INCOMPLETED WORK AND SUBCONTRACTED WORK
- VI BID ITEMS
- VII CERTIFICATION

BID..... ☐ PROPOSAL ISSUED TO: _____

SPECIMEN..... ☐

Address City State Zip

PART I

SCOPE OF WORK

1. Project Detail

- | | |
|--|----------|
| a. See Road and/or Bridge Plans | |
| b. Special Notes Applicable to Project | Attached |
| c. Supplemental Specifications | Attached |
| d. Special Notes for Railroads | Attached |
| e. Special Note for Utility Clearance | Attached |

SPECIAL NOTES APPLICABLE TO PROJECT

2000 SPECIFICATIONS

Any reference in the plans or in the proposal to the *Standard Specifications for Road and Bridge Construction, Edition of 1998*, and Standard Drawings, Edition of 2000 are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2000*, and Standard Drawings, Edition of 2003.

2001 SUPPLEMENTAL SPECIFICATIONS

The *2001 Supplemental Specifications* to the 2000 Standard Specifications for Road and Bridge Construction shall apply to this project.

PROPOSAL ADDENDA

All Addenda to this proposal must be incorporated into the proposal when the bid is submitted to the Kentucky Department of Highways. Failure to use the correct and most recent bid sheet(s) may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's Highway Bid Program available on the internet web site of Department of Highways, Division of Contract Procurement. (www.kytc.state.ky.us/contract)

The Bidder must download the bid items created from the web site to prepare a bid proposal for submission to the Department. The Bidder must insert the completed bid item sheets printed from the Program into the bidder's proposal and submit with the disk created by said program.

JOINT VENTURE BIDDING

Joint Venture bidding is permissible. However, both companies **MUST** purchase a bidding proposal. Either proposal may be submitted but must contain the company names and signatures of both parties where required. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor is advised that the Underground Facility Damage Protection Act of 1994, became law January 1, 1995. It is the contractor's responsibility to determine the impact of the act regarding this project, and take all steps necessary to be in compliance with the provisions of the act.

ASPHALT BASE PRICE

The Asphalt Base Price shall be \$165.00 (English) as applicable in Section 109.07 of the *2000 Standard Specifications*.

OPTION A

The Contractor is advised that the compaction of asphalt mixtures furnished for driving lanes and ramps, at 25mm (1 inch) or greater, on this project will be accepted according to **OPTION A** in accordance with Section 402 and Section 403 of the *2000 Standard Specification*. The compaction of all other asphalt mixtures will be accepted by **OPTION B**.

ASPHALT PAVEMENT RIDE QUALITY

Pavement Rideability Requirements shall apply on this project in accordance with Section 410 of the *2000 Standard Specifications*.

SPECIAL NOTES APPLICABLE TO PROJECT (Continued)

In order for the Cabinet to the use of its resources more efficiently, the contractor shall, prior to issuance of notice to begin work, submit an anticipated earnings schedule broken down by month for the expected life of the contract for any project with a bid over \$5,000,000. The contractor will be provided a spreadsheet to expedite the preparation of this schedule upon award of the contract. No direct payment will be allowed for the preparation and submittal of this schedule.

In the event the Engineer determines that there are inadequate or insufficient road funds available under the contract for the payment of Engineer's estimates for work on the project as they come due, the Engineer may suspend payment for all or a part of the contract. If payment is suspended, the contractor may have the option, with the written agreement of the Engineer, of continuing performance under the contract. If the contractor suspends performance, he shall not resume performance until he receives a back to work notice from the Engineer. In the event that the Engineer suspends payment for all or part of the project as provided herein, the contractor waives any and all right to bring any claim for damages as a result of the suspension or delayed payment.

In the event the Engineer determines that there are inadequate or insufficient road funds available for the payment of Engineer's estimates for work on the project as they come due, the Engineer may at his discretion, by written notice 10 days in advance, terminate all or part of the contract. The Cabinet will remain obligated to pay, as soon as funds are available, all actual items of work performed prior to the contractor's receipt of the notice termination. The contractor shall be entitled to reasonable close out costs attendant to termination of the contract under this provision, but in no event shall the contractor be entitled to more than 10% of the total contract price.

The contractor agrees to all terms and conditions stated above in the event there are inadequate or insufficient funds available under the contract for payment, and contractor further expressly waives any right to assert a claim or bring any form of action against the Cabinet under the contract or pursuant to Kentucky law or regulation, including but not limited to KRS Chapter 45A or KRS Chapter 13B.

To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Transportation Cabinet from and against claims, damages, losses, and expenses, including but not limited to attorney's fees, arising out of or resulting from suspension or termination under this section. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person under the contract.

In the event of any inconsistent provisions within this contract with respect to this section and any other section, the provisions of this section shall govern and control.

**Supplemental Specifications to The Standard Specifications
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| SECTION: | Complete Standard Specifications |
| REVISION: | Replace all references to "PCC Pavement" with "JPC Pavement" |
| SUBSECTION: | 102.07.01 General. |
| REVISION: | Replace the first sentence with the following: Submit the Bid Proposal on the forms furnished by the Department including the Highway Bid Program bid item sheets and disk created from the Department's internet web site. |
| SUBSECTION: | 102.07.02 Computer Bidding. |
| REVISION: | Replace the subsection with the following: Subsequent to ordering a Bid Proposal for a specific project, use the Department's Highway Bid Program on the internet web site of the Department of Highways, Division of Contract Procurement. Download the bid item quantities from the Department's web site to prepare a Bid Proposal for submission to the Department. Insert the completed bid item sheets printed from the Highway Bid Program into the Proposal and submit along with the disk created by said program. In case of a dispute, the Bid Proposal and bid item sheets created by the Highway Bid Program take precedence over any bid submittal. Furthermore the Department takes no responsibility for loss, damage of disks or the compatibility with the bidder's computer equipment or software. |
| SUBSECTION: | 102.08 IRREGULAR BID PROPOSALS. |
| REVISION: | Add the following to the first set of items: 4) Fails to submit a disk created from the Highway Bid Program |
| SUBSECTION: | 102.08 IRREGULAR BID PROPOSALS. |
| REVISION: | Replace 1) of the second set of items with the following: 1) when the Bid Proposal is on a form other than that furnished by the Department or printed from other than the Highway Bid Program, or when the form is altered or any part is detached. |
| SUBSECTION: | 103.05 REQUIREMENT OF CONTRACT BOND. |
| REVISION: | Replace the first sentence of the first paragraph with the following: To be acceptable to the Department, the surety must have a minimum A. M. Best rating of an "A-", be listed on the U.S. Treasury Listing of approved sureties for an amount equal to or greater than the amount of the bond and be an admitted carrier in the Commonwealth of Kentucky. Replace the last sentence of the first paragraph with the following: If at any time during the performance of the Contract the surety company falls below the minimum acceptable requirements, the Contractor shall file a new bond in an amount established by the Commissioner, or his designee, within 14 calendar days of such failure to meet the minimum requirements. Add the following to the end of the subsection: The Department reserves the right to copy the surety on all of its communications with the Contractor concerning the Contractor's performance, or performance deficiencies, on the project and further reserves the right to communicate directly with the surety to inform them of the Contractor's performance, or performance deficiencies, on the bonded project. |
| SUBSECTION: | 108.02 PRECONSTRUCTION CONFERENCE. |
| REVISION: | Add the following to the first paragraph: Include a plan for updating the schedule. As a minimum, the schedule must be updated whenever a situation arises or event occurs that significantly affects the progress of the work or when the Engineer directs. |

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| SUBSECTION: | 109.04.02 Cost-Plus Work. |
| PART: | C) Equipment and Tools. |
| REVISION: | Replace with the second, third, and fourth paragraphs with the following: For any machinery or special equipment that the Engineer has authorized for use and the Contractor has used, the Department will pay the rental rate stated on the rental company invoice for the actual agreed time and rate that such equipment is required on the work and will add an amount equal to 15 percent of the rental sum as full compensation for fuel, lubricants, and filters. The Department will pay for equipment that the Contractor is already using on the project, and which is not obtained specifically for the cost-plus work based on an hourly rate. The Department will determine the hourly rate by taking the Blue Book monthly rental rate, adjusted for age and geographic region, dividing it by 176 and adding the Blue Book estimated operational cost. The Department will pay rental rates for equipment required to be on standby at one half the normal rate, excluding operational cost, and pay for standby time for a maximum of 8 hours per day and 40 hours per week. |
| SUBSECTION: | 109.04.02 Cost-Plus Work. |
| PART: | F) Overhead. |
| REVISION: | Add the following new part: F) Overhead. The Department will pay for overhead cost associated with administering the work, not to exceed 5 percent, when the work is done by a Subcontractor. |
| SUBSECTION: | 112.02 MATERIALS AND EQUIPMENT. |
| REVISION: | Add the following: Provide certification that all Work Zone Category I and II Devices are compliant with NCHRP 350. |
| SUBSECTION: | 112.02.05 Temporary Pavement Markings. |
| PART: | C) Temporary Striping. |
| NUMBER: | 2) Paint. |
| REVISION: | Replace with the following: 2) Paint. Conform to Section 842 |
| SUBSECTION: | 112.02.05 Temporary Pavement Markings. |
| PART: | C) Temporary Striping. |
| NUMBER: | 3) Drop on Beads. |
| REVISION: | Replace with the following: 3) Drop on Beads. Conform to Section 839 |
| SUBSECTION: | 112.02.11 Truck Mounted Attenuator (TMA). |
| REVISION: | Replace with the following: 112.02.11 Truck Mounted Attenuator (TMA). Use only NCHRP 350 TL-3 compliant devices. |
| SUBSECTION: | 112.03.01 General Traffic Control. |
| PART: | G) Signs. |
| REVISION: | Replace the first sentence with the following: Completely cover all lettering and symbols on existing, permanent, and temporary signs which do not properly apply to the current traffic phasing, and maintain the covering until the signs are applicable or are removed. |
| SUBSECTION: | 112.03.01 General Traffic Control. |
| PART: | J) TMAs. |
| REVISION: | Replace the first sentence with the following: Mount the attenuator on a support vehicle that is in close conformity to the one it was tested with for NCHRP compliance. |

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| SUBSECTION: | 112.04.02 Signs. |
| REVISION: | Replace the subsection with the following: 112.04.02 Signs. The Department will measure the quantity in square feet. The Department will measure each individual sign the first time it is installed and each additional time that it is installed through post mounting. The Department will not measure sign maintenance or subsequent relocation of original signs by methods other than post mounting and will consider them incidental to this item of work. The Department will measure signs for payment when they are required by the MUTCD, Standard Drawings, TCP, the Contract, or the Engineer. Additional signs will be considered incidental to this item of work. The Department will measure replacement units for payment, only when the Engineer determines replacement is required resulting from normal deterioration of the signs due to environmental conditions. |
| SUBSECTION: | 112.03.01 General Traffic Control. |
| PART: | I) Temporary Traffic Signals. |
| REVISION: | Replace the MUTCD reference "Section 4B" with "Chapter 4D" |
| SECTION: | 201 STAKING. Delete the section and replace with the following: 201.01 DESCRIPTION. When listed as a bid item, furnish all personnel, equipment, stakes, and hubs necessary to construct the roadway and appurtenant structures to the grade and alignment specified in the Contract. When no bid item is listed, the Department will perform staking. 201.02 MATERIALS AND EQUIPMENT. Reserved. 201.03 CONSTRUCTION 201.03.01 Contractor Staking. Perform all necessary surveying under the general supervision of a Professional Engineer or licensed Land Surveyor. The Department's Engineer will perform the following: 1) Provide adequate referencing of control points to allow prompt re-establishment of the survey centerline, right of way, ramps, crossroads, and frontage roads during construction. 2) Set permanent or temporary bench marks as required. 3) Take any cross sections to verify the accuracy of the original ground information. 4) Take "check sections" to verify that construction is to grade and alignment as specified in the Contract. The Contractor will perform the following: 1) Re-establish the centerline and set such additional points as may be necessary for construction of the project. Verify the accuracy of the horizontal and vertical control as established by the Department's Engineer before beginning construction. 2) Establish clearing lines so that the project may be cleared without violating the limits of the right of way. 3) Set slope stakes right and left of the survey centerline at 50-foot to 100-foot intervals to guide the contractor in constructing the cuts and fills. These stakes are generally set to shoulder grade for fills and ditch grade for cuts. The cut or fill information, slope, and distance from centerline should be on the front face of the stake; the station number should be on the back of the stake. This stake should be guarded with a lath that has the station number written on the side facing the centerline. 4) Grade Stakes (Bluetops). Fine grade control will be set to aid the Contractor in establishing the typical sub-grade section. When using conventional transit and chain methods this fine grade control will be established by setting hubs(referred to as blue tops) every 50 feet to the sub-grade section. These blue tops are set to the hundredth of a foot in elevation and are located left and right of pavement centerline, usually at the edge of metal. Bluetops will be set for the top of sub-grade and the top of aggregate base and/or drainage blanket material. Refer to Section 204.03.10 and Section 302.03.06 for construction tolerances of sub-grade and aggregate base or drainage blanket. |

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revision continued

5) Stake all structures (bridges, culverts, pipe, and other appurtenances) so that they can be built to the proper line and grade as shown on the plans and to perform the function for which they were designed.

201.03.02 Department Staking. The Department's Engineer will set all stakes necessary for the construction of the roadway and appurtenant structures to the proper grade and alignment in accordance with the contract.

201.03.03 Electronic Surveying. The Department encourages the use of new and advanced technology in the construction of its roads and structures. However, the following restrictions apply:

1) Tolerances are unchanged. Refer to Section 204.03.10 and Section 302.03.06.

2) Sub-grade check sections are to be done every 500 feet in tangent sections and every 100 feet in curves using conventional survey methods to establish bluetops and to verify the correct operation of the electronic equipment.

3) The Contractor will submit his electronic data files to the Department's Engineer at the beginning of the project so that the Engineer can reference the data for verification of the field work.

201.04 MEASUREMENT.

201.04.01 Contractor Staking. When listed as a bid item, the Department will measure staking as lump sum. The Department will not measure surveying required to correct any errors or inaccuracies resulting from construction operations for payment.

201.04.02 Department Staking. The Department will not measure quantities for payment. When any stakes are disturbed due to unwarranted negligence of the Contractor, the Department will measure the work required to reset the stakes and deduct the cost from monies due the Contractor.

201.05 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

| Code | Pay Item | Pay Unit |
|------|----------|----------|
| 2726 | Staking | Lump Sum |

The Department will consider payment as full compensation for all work required under this section.

SUBSECTION: REVISION:

204.03.08 Disposal of Wasted Materials.
Add the following to the end of the second paragraph:

The Department will pay for the geotechnical investigation and analysis of the proposed waste area when one is requested by the Engineer. Ensure all work is performed by a pre-qualified geotechnical consultant and according to the Department's Geotechnical Manual.

SUBSECTION: PART: REVISION:

206.03.02 Embankment.
C) Embankment of Rock/Shale/Soil Combination.
Replace the first sentence with the following:

Construct in lifts not exceeding one foot in thickness; however, when the thickness of the rock exceeds one foot, the Department may allow the thickness of the embankment lifts to increase, as necessary, due to the nature of the material, up to 2 feet. Apply a sufficient amount of water to induce slaking when mixtures contain 50 percent or more non-durable shale.

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| SUBSECTION: | 206.03.02 Embankment. |
| PART: | D) Embankments Principally of Non-Durable Shale (SDI less than 95 according to KM 64-513). |
| REVISION: | Replace the fourth and fifth sentences with following: Uniformly incorporate the water throughout the lift using a multiple gang disk with a minimum disk diameter of 2 feet or other suitable equipment the Engineer approves. Compact with 30-ton static tamping foot rollers in conjunction with vibratory tamping foot rollers that produce a minimum compactive effort of 27 tons and direct hauling equipment over the full width of the lift to aid in compaction. When questions arise regarding the durability of shale, use KM 64-514 to estimate the durability of the material in the field. |
| SUBSECTION: | 206.04.01 Embankment-in-Place. |
| REVISION: | Add the following: The Department may make adjustments to embankment-in-place projects when there is actually unanticipated waste on the project. Waste generated by the project phasing will not be considered for adjustment. The Department will make an adjustment for the actual costs incurred by the Contractor. |
| SUBSECTION: | 208.03.03 Application of Chemical. |
| PART: | B) Lime. |
| NUMBER: | 3) |
| REVISION: | Replace the second sentence with the following: Use only when saturated soil conditions exist and the slurry method would worsen the situation or when weather conditions prohibit the use of slurry. |
| SUBSECTION: | 208.03.06 Curing and Protection. |
| REVISION: | Replace the first sentence of the fourth paragraph with the following: Do not allow any traffic or equipment on the finished surface until 7 days above 40 °F curing is completed or the roadbed cores achieve a minimum strength requirement of 75 psi. |
| SUBSECTION: | 208.04.02 Lime. |
| REVISION: | Add the following to the end of the second paragraph: When hydrate or quicklime is furnished for dry application, the Department will measure the actual quantity applied to the roadbed. |
| SUBSECTION: | 212.03.03 Permanent Seeding and Protection. |
| PART: | A) Seed Mixtures for Permanent Seeding. |
| REVISION: | Replace with the following: A) Seed Mixture for Permanent Seeding. Use seed Mixture No. I, No. III, or as the Contract specifies. Mixture No. I: 75% Kentucky 31 Fescue (<i>Festuca arundinacea</i>) 10% Red Top (<i>Agrostis alba</i>) 5% White Dutch Clover (<i>Trifolium repens</i>) 10% Rygrass, perennial (<i>Lolium perenne</i>) Mixture No. III: 30% Kentucky 31 Fescue (<i>Festuca arundinacea</i>) 15% Red Top (<i>Agrostis alba</i>) 15% Partridge Pea (<i>Cassia fasciculata</i>) 20% Sericea Lespedeza 10% Sweet Clover – Yellow (<i>Melilotus officinalis</i>) 10% Rygrass, perennial (<i>Lolium perenne</i>) |

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| SUBSECTION: | 212.03.03 Permanent Seeding and Protection. |
| PART: | B) Procedures for Permanent Seeding. |
| REVISION: | Add the following after the third sentence: Remove all rock and dirt clods over 4 inches in diameter from the surface of the seedbed. |
| SUBSECTION: | 212.03.03 Permanent Seeding and Protection. |
| PART: | C) Crown Vetch. |
| REVISION: | Replace the first sentence with the following: Sow crown vetch seed on all areas having a slope 3:1 or steeper and consisting of soil or mixtures of broken rock and soil. |
| SUBSECTION: | 212.03.03 Permanent Seeding and Protection. |
| PART: | E) Erosion Control Blanket. |
| REVISION: | Replace the first sentence with the following: Install erosion control blankets in ditches, except those to be paved or rock lined, to a flow depth of 1.5 feet. |
| SUBSECTION: | 213.03.02 Progress Requirements. |
| REVISION: | Replace the word "may" with "will" in the second sentence of the third paragraph. |
| SUBSECTION: | 213.03.02 Progress Requirements. |
| REVISION: | Replace the third sentence of the third paragraph with the following: Additionally, the Department will apply a penalty equal to the liquidated damages when all aspects of the work are not coordinated in an acceptable manner within 5 days after written notification. |
| SUBSECTION: | 213.03.03 Inspection and Maintenance. |
| REVISION: | Replace the first sentence of the first paragraph with the following: Investigate all erosion control devices weekly and after each 0.1-inch rainfall event. Replace the first sentence of the second paragraph with the following: The Engineer will monitor the in-place erosion control for the project once every 7 calendar days and within 24 hours following a 0.1-inch or greater rainfall. |
| SUBSECTION: | 214.04 MEASUREMENT. |
| REVISION: | Replace the second sentence with the following: The Department will not measure fabric when the Contract indicates the fabric is incidental to the work or when the specification for another item requires incidental installation of geotextile fabric. |
| SUBSECTION: | 302.02 MATERIALS. |
| REVISION: | Add the following: 302.02.03 Mixer. Equip the mixer with a water flow system with a positive cut-off control that will stop the flow of water simultaneously with any stoppage in the flow of aggregate and with valves or other devices that can be easily reset when a change in the rate of flow is desired. |
| SUBSECTION: | 401.02.01 All Asphalt Mixing Plants. |
| PART: | A) |
| REVISION: | Replace the first sentence of the second paragraph with the following: Provide a laboratory inspected and qualified according to the Department's Quality Assurance Program for Materials Testing and Acceptance and conforming to the following minimum requirements: |

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| SUBSECTION: | 401.02.01 All Asphalt Mixing Plants. |
| PART: | A) |
| REVISION: | Replace the fourth paragraph with the following: In addition to the equipment required to perform testing according to the AASHTO standards and Kentucky Methods (KM), equip each laboratory with the following minimum furnishings and equipment, conforming to the applicable specifications, as required for the type of construction specified in the Contract: 1) one workbench, at least 2.5 feet wide by 6 feet long; 2) one desk or table and 2 chairs; 3) a fire extinguisher located near the door; and 4) a first aid kit. |
| SUBSECTION: | 401.02.01 All Asphalt Mixing Plants. |
| PART: | Between Items "H" and "I" |
| REVISION: | Insert the following new item: Recordation. Provide an automatic graphic or digital record of the production quantities according to AASHTO M156. |
| SUBSECTION: | 401.02.01 All Asphalt Mixing Plants. |
| PART: | I) Thermometers. |
| REVISION: | Delete the third paragraph. |
| SUBSECTION: | 401.02.04 Special Requirements for Continuous Plants. |
| PART: | B) Weight Calibration of Asphalt Binder and Aggregate Feed. |
| REVISION: | Add the following new paragraph: When equipped with aggregate weighing devices (belt scales), calibrate each cold feeder, along with the aggregate weighing devices, according to Subsection 401.02.05 A) and B). |
| SUBSECTION: | 402.03.01 Responsibilities. |
| PART: | B) Setup. |
| REVISION: | Replace (MSG) with (G_{mm}) |
| SUBSECTION: | 402.03.01 Responsibilities. |
| REVISION: | Add the following: C) Process Control. After the setup period, perform the process control operations of KM 64-426. |
| SUBSECTION: | 402.03.02 Acceptance. |
| PART: | A) General. |
| REVISION: | Add the following: Document and report all acceptance tests on the Asphalt Mixtures Acceptance Workbook (AMAW). Submit the completed AMAW for each lot to the Department within 5 working days after the completion of the lot. |
| SUBSECTION: | 402.03.02 Acceptance. |
| PART: | C) Setup. |
| REVISION: | Add the following after the second sentence: For mixtures with a total-project quantity between 500 and 1,000 tons, perform a minimum of one process control test for AC, AV, and VMA, and report the results to the Engineer. Add the following after the seventh sentence: Ensure the adjusted AC remains above the minimums specified in Subsection 403.03.03 C) 2). |

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| SUBSECTION: | 402.03.03 Verification. |
| REVISION: | Replace the first two sentences with the following: For volumetric properties, the Department will perform a minimum of one verification test for AC, AV, and VMA for each lot according to the corresponding procedures as given in Subsection 402.03.02. For specialty mixtures, the Department will perform one AC and one gradation determination per lot according to the corresponding procedures as given in Subsection 402.03.02. However, Department personnel will not perform AC determinations according to KM 64-405. |
| SUBSECTION: | 402.05.02 Asphalt Mixtures and Mixtures with RAP. |
| PART: | D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge. |
| REVISION: | Replace with the following: The Department will pay as mainline mixture but use a 1.00 pay value for all properties. |
| SUBSECTION: | 402.05.01 Specialty Mixtures. |
| REVISION: | Add "asphalt mixtures for temporary applications" to the list of defined specialty mixtures. |
| SUBSECTION: | 403.02.05 Release Agent. |
| REVISION: | Replace with the following: Provide materials conforming to KM 64-422. |
| SUBSECTION: | 403.02.06 Transport Equipment. |
| REVISION: | Add the following after the first sentence: Do not load trucks that are contaminated with an unapproved release agent. When such contamination is identified after loading, reject the load. In either case, remove the truck and respective driver from the project for the duration of the project. |
| SUBSECTION: | 403.02.09 Small Tools and Portable Equipment. |
| REVISION: | Add the following at the end of the first paragraph: Do not use an unapproved release agent on any small tools or equipment incidental to the paving operation. |
| SUBSECTION: | 403.03.01 Seasonal and Weather Limitations. |
| REVISION: | Replace "November 15" with "November 30" throughout the Subsection. |
| SUBSECTION: | 403.03.02 Preparation of Base. |
| REVISION: | Replace the first sentence of the eighth paragraph with the following: Remove existing Type V markers. Fill the recess and any additional damaged area with compacted asphalt mixture within 24 hours of removal. |
| SUBSECTION: | 403.03.03 Preparation of Mixture. |
| PART: | A) Mixture Composition. |
| REVISION: | Replace Part A) with the following: A) Mixture Composition. Provide the appropriate mixture composition for the specified asphalt mixture, or substitute a higher aggregate type. When substituting a mixture of a higher ESAL class, provide a mixture of no more than one ESAL class higher than the specified asphalt mixture. Conform to the gradation requirements (control points) of AASHTO MP2 for the Superpave mixture. Unless the Engineer authorizes otherwise in writing, use the same type and source of ingredient aggregates and asphalt binder throughout the entire project for each type of mixture. For asphalt surface courses containing 100 percent polish-resistant coarse aggregate, limit the portion of non-polish-resistant fine aggregate retained on a No. 4 sieve to 5 percent of the total combined aggregates. When using a porous aggregate, increase the asphalt binder content (AC) as needed for asphalt binder absorption by the aggregate. The following aggregate requirements are listed in order of the highest, Type A, to the lowest, Type D: |

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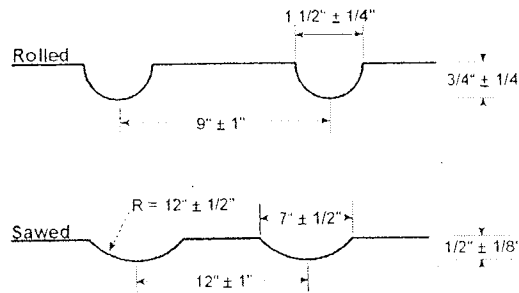
| | |
|---|--|
| revision continued | <p>1) Type A. Provide 100 percent of the coarse aggregate Class A sources. Ensure that 20 percent of the total combined aggregate is Class A polish-resistant fine aggregate.</p> <p>2) Type B. Select either of the 2 following options:</p> <p>a) Provide 100 percent of the coarse aggregate from Class B sources.</p> <p>b) Provide a combined aggregate, retained on the No. 4 sieve, that is a minimum of 50 percent from any Class A polish-resistant aggregate source except those identified as "Not Permitted as the polish-resistant portion of Class B blends." Submit all Class B blends to the Department for review.</p> <p>For Option a) or b) above, ensure one of the following:</p> <ul style="list-style-type: none"> • 20 percent or more of the total combined aggregate is Class A polish resistant fine aggregate. • 30 percent or more of the total combined aggregate is Class B polish resistant fine aggregate. • 30 percent or more of the total combined aggregate is a combination of Class A and Class B polish resistant fine aggregate. <p>3) Type C. Ensure that 40 percent or more of the total combined aggregate is polish-resistant; Class A coarse, fine, or combination.</p> <p>4) Type D. No restriction on aggregate type.</p> |
| <p>SUBSECTION:</p> <p>PART:</p> <p>REVISION:</p> | <p>403.03.03 Preparation of Mixture.</p> <p>B) Moisture Content of Mix</p> <p>Replace the third sentence with the following:</p> <p>When moisture contents are 0.10 percent or greater, adjust the AC determination made on plant-produced mixture to reflect the actual AC as KM 64-434 directs.</p> |
| <p>SUBSECTION:</p> <p>PART:</p> <p>REVISION:</p> | <p>403.03.03 Preparation of Mixture.</p> <p>C) Mix Design Criteria.</p> <p>Replace the first sentence with the following:</p> <p>Conform to the gradation requirements (control points) of AASHTO MP2 for the Superpave mixture type the Contract specifies.</p> |
| <p>SUBSECTION:</p> <p>PART:</p> <p>NUMBER:</p> <p>REVISION:</p> | <p>403.03.03 Preparation of Mixture.</p> <p>C) Mix Design Criteria.</p> <p>1)</p> <p>Replace the first sentence with the following:</p> <p>Submit a preliminary mix design, completed using a Superpave gyratory compactor (SGC) conforming to AASHTO PP 35.</p> <p>Add the following after the second sentence:</p> <p>The Department will require a dust-to-binder range of 0.8 to 1.6.</p> |
| <p>SUBSECTION:</p> <p>PART:</p> <p>NUMBER:</p> <p>REVISION:</p> | <p>403.03.03 Preparation of Mixture.</p> <p>C) Mix Design Criteria.</p> <p>2) Selection of Optimum AC.</p> <p>Add the following:</p> <p>Ensure the optimum AC is a minimum of 5.0 percent by weight of the total mixture for all 0.5-inch nominal surface mixtures and 5.3 percent by weight of the total mixture for all 0.38-inch nominal surface mixtures.</p> |
| <p>SUBSECTION:</p> <p>TABLE:</p> <p>REVISION:</p> | <p>403.03.06 Thickness Tolerance.</p> <p>Nominal Maximum Size of Mixture vs. Thickness Range</p> <p>Delete</p> |

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SUBSECTION: 403.03.08 Rumble Strips.
REVISION: Replace with the following:

- A) Interstates and Parkways. Construct sawed rumble strips on all mainline and ramp shoulders to the dimensions shown below.
- B) Other Roads. When using a surface mixture instead of Asphalt Mixture for Pavement Wedge, or when the Engineer deems it appropriate to pave the driving lanes and the adjacent shoulder monolithically, provide rolled rumble strips. Construct strips on all main line shoulders to the dimensions shown below. When furnishing Asphalt Mixture for Pavement Wedge, binder, or a base mixture for shoulders, the Department will not require rumble strips.
- Time the rolling operation so indentations are at the specified size and depth without causing unacceptable displacement of the asphalt mat. Correct unacceptable rolled-in rumble strips by sawing.
- On shoulders less than 3 feet, shorten the length and distance of the strips as the Engineer directs.
- If preferred, construct the rumble strips by sawing as specified for Interstates and Parkways.

RUMBLE STRIP DIMENSIONS



Distance from the edge of the mainline pavement to the end of the strip: 1 foot
Length of strips: Rolled 2 feet, Sawed 16 inches

SUBSECTION: 403.03.09 Leveling and Wedging, and Scratch Course.
PART: A) Leveling and Wedging.

REVISION: Replace the first sentence with the following:

Conform to the gradation requirements (control points) for base, binder, or surface as applicable.

SUBSECTION: 403.03.09 Leveling and Wedging, and Scratch Course.
PART: B) Scratch Course.

REVISION: Replace the second sentence with the following:

Conform to the gradation requirements (control points) for base, binder, or surface as the Engineer directs.

SUBSECTION: 403.04.03 Asphalt Mixtures.
REVISION: Add the following:

The Department will not measure rumble strips for payment and will consider them incidental to this bid item.

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SECTION: 404 OPEN-GRADED FRICTION COURSE
TABLE: LOT PAY ADJUSTMENT SCHEDULE FOR SPECIALTY MIXTURES
REVISION: Replace the table with the following table:

| LOT PAY ADJUSTMENT SCHEDULE FOR SPECIALTY MIXTURES (TEST DEVIATION FROM JMF) | | |
|---|-----------|------------------------|
| | Pay Value | Deviation From JMF (%) |
| Asphalt Binder Content | 1.00 | 0.0-0.5 |
| | 0.98 | 0.6 |
| | 0.95 | --- |
| | 0.90 | 0.7 |
| | 0.85 | 0.8 |
| | 0.75 | ≥ 0.9 |
| 1 1/2 inch Sieve | 1.00 | 0-13 |
| | 0.98 | 14 |
| | 0.95 | 15-16 |
| | 0.90 | 17-20 |
| | 0.85 | 21-23 |
| | 0.75 | ≥ 24 |
| 1 inch, 3/4 inch, and 1/2 inch Sieves | 1.00 | 0-9 |
| | 0.98 | 10 |
| | 0.95 | 11-12 |
| | 0.90 | 13-14 |
| | 0.85 | 15-16 |
| | 0.75 | ≥ 17 |
| 3/8 inch, No. 4, No. 8, No. 16, and No. 30 Sieves | 1.00 | 0-8 |
| | 0.98 | 9 |
| | 0.95 | 10 |
| | 0.90 | 11-12 |
| | 0.85 | 13-14 |
| | 0.75 | ≥ 15 |
| No. 50 Sieve | 1.00 | 0-6 |
| | 0.98 | 7 |
| | 0.95 | 8 |
| | 0.90 | 9 |
| | 0.85 | 10 |
| | 0.75 | ≥ 11 |
| No. 100 Sieve | 1.00 | 0-3 |
| | 0.98 | --- |
| | 0.95 | 4 |
| | 0.90 | 5 |
| | 0.85 | --- |
| | 0.75 | ≥ 6 |
| No. 200 Sieve | 1.00 | 0.0-2.0 |
| | 0.98 | 2.5 |
| | 0.95 | 3.0 |
| | 0.90 | --- |
| | 0.85 | 3.5 |
| | 0.75 | ≥ 4.0 |
| Fineness Modulus | 1.00 | 0.0-0.30 |
| | 0.98 | 0.31-0.34 |
| | 0.95 | 0.35-0.39 |
| | 0.90 | 0.40-0.46 |
| | 0.85 | 0.47-0.55 |
| | 0.75 | ≥ 0.56 |

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| SUBSECTION: | 406.02.01 Tack Coat. | | | | | | | | | | | | | | | | | | | |
|--------------------|---|--------------------|-----------------------------------|--|--|-----------|------------|----------|----------|----------|---|---|----------|----------|----------|---|----------|----------|----------|---|
| REVISION: | Replace with the following: Furnish any of the following asphalt materials conforming to 806: SS-1, SS-1h, or RS-1. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 406.02.03 Curing Seal. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace with the following: Furnish any of the following asphalt materials conforming to 806: RS-1, RS-2, SS-1, SS-1h, or Primer L. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 406.03.03 Application. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace the temperature table with the following: Primer L 60-120 °F SS-1, SS-1h 70-160 °F RS-1, RS-2 70-140 °F | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 406.03.03 Application. | | | | | | | | | | | | | | | | | | | |
| PART: | B) Asphalt Tack Coat. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace the second paragraph with the following: When furnishing RS-1 for tack, apply it undiluted. Replace the first sentence of the third paragraph with the following: When furnishing SS-1 or SS-1h for tack, the Department will allow diluted or undiluted application provided uniform and complete coverage is achieved. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 407.02.02 Aggregate. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Change Sieve Size No. 30 to read Sieve Size No. 50. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 408.04.02 Mobilization for Asphalt Pavement Milling and Texturing. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Add the following: For group contracts, the Department will measure the quantity for each project (subsection) that has a bid item for Mobilization for Asphalt Pavement Milling and Texturing. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 409.02 MATERIALS AND EQUIPMENT. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace "KM 64-427" with the following: the guidelines in Subsection 409.03.02 | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 409.03.01 Restrictions. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Add the following sentence: When the mixture's bid item specifies PG 76-22, limit RAP content to 20 percent or less. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 409.03.02 Preparation of Mixture. | | | | | | | | | | | | | | | | | | | |
| PART: | A) Mix Requirements. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Void the Revision and replace with the following: Conform to the Contract requirements for each mixture produced using RAP. If mixtures produced using RAP do not conform to the requirements for that mixture, complete the project using all virgin materials at no additional expense to the Department. Conform to the following table to select the appropriate grade of virgin asphalt binder to blend with the RAP: | | | | | | | | | | | | | | | | | | | |
| | <table><tr><th rowspan="2">Mixture's Bid Item</th><th colspan="3">Appropriate Virgin Asphalt Binder</th></tr><tr><th>0-20% RAP</th><th>21-30% RAP</th><th>>30% RAP</th></tr><tr><td>PG 76-22</td><td>PG 76-22</td><td>-</td><td>-</td></tr><tr><td>PG 70-22</td><td>PG 70-22</td><td>PG 64-22</td><td>*</td></tr><tr><td>PG 64-22</td><td>PG 64-22</td><td>PG 64-22</td><td>*</td></tr></table> | Mixture's Bid Item | Appropriate Virgin Asphalt Binder | | | 0-20% RAP | 21-30% RAP | >30% RAP | PG 76-22 | PG 76-22 | - | - | PG 70-22 | PG 70-22 | PG 64-22 | * | PG 64-22 | PG 64-22 | PG 64-22 | * |
| Mixture's Bid Item | Appropriate Virgin Asphalt Binder | | | | | | | | | | | | | | | | | | | |
| | 0-20% RAP | 21-30% RAP | >30% RAP | | | | | | | | | | | | | | | | | |
| PG 76-22 | PG 76-22 | - | - | | | | | | | | | | | | | | | | | |
| PG 70-22 | PG 70-22 | PG 64-22 | * | | | | | | | | | | | | | | | | | |
| PG 64-22 | PG 64-22 | PG 64-22 | * | | | | | | | | | | | | | | | | | |
| | * Select according to KM 64-427 | | | | | | | | | | | | | | | | | | | |

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| SUBSECTION: | 410.05 PAYMENT. |
| REVISION: | Replace the RIDE QUALITY ADJUSTMENT SCHEDULE with the following 2 schedules: |
| RIDE QUALITY ADJUSTMENT SCHEDULE FOR ROADS POSTED GREATER THAN 45 MPH | |
| IRI | Pay Value⁽¹⁾ |
| 36 or lower | +0.15 |
| 37 to 46 | = 0.015 x (47 - IRI) |
| 47 to 66 | 0.00 |
| 67 to 76 | = 0.015 x (67 - IRI) |
| 77 or higher | Corrective work or replacement required |
| RIDE QUALITY ADJUSTMENT SCHEDULE FOR ROADS POSTED 45 MPH OR LESS | |
| Rideability Index | Pay Value⁽¹⁾ |
| 36 or lower | +0.15 |
| 37 to 46 | = 0.015 x (47 - IRI) |
| 47 to 85 | 0.00 |
| 86 or higher | Corrective work or replacement required |
| <i>⁽¹⁾ The Department will not apply a positive pay value for corrective work other than removal and replacement to achieve the IRI</i> | |
| SUBSECTION: | 501.03.13 Finishing. |
| PART: | H) Texturing. |
| REVISION: | Replace the third paragraph with the following: |
| | Form transverse grooves in the concrete with a width between 0.09 inch and 0.13 inch and a depth between 0.12 inch and 0.19 inch. Space the grooves at random intervals between 0.4 inch to 1.5 inches with no more than 50 percent of the spacing being one inch or greater. |
| SUBSECTION: | 502.03 CONSTRUCTION. |
| PART: | D) Strength Testing and Opening to Traffic. |
| NUMBER: | 1) Cylinders. |
| REVISION: | Replace the first sentence with the following: |
| | The Department will cast, cure, and test 3 sets from each 150 cubic yards of concrete. |
| SUBSECTION: | 503.03.09 Ride Quality. |
| REVISION: | Replace item 4) with the following: |
| | Achieve an IRI of 63 or less for each traffic lane with no individual one-mile section having an IRI of greater than 76. |
| SUBSECTION: | 506.03.01 Header Curb, Valley Gutter, and Curb and Gutter (Combination). |
| REVISION: | In the second sentence of the third paragraph replace the Subsection reference 601.03.12 with 501.02.10. |
| | In the second sentence of the sixth paragraph replace the Subsection reference 601.03.16 with 501.03.17 D). |
| SUBSECTION: | 508.03.03 Precast Construction. |
| REVISION: | Replace "Subsection 605.03" in the first sentence with Section 605. |
| SUBSECTION: | 509.03 CONSTRUCTION. |
| REVISION: | Replace "Subsection 605.03" in the first sentence with Section 605. |
| SUBSECTION: | 601.02.13 Forms. |
| PART: | F) Stay-In-Place Metal Forms. |
| NUMBER: | 1) Forms and Supports. |
| REVISION: | Replace ASTM A 446 with ASTM A 653. |
| | Replace ASTM A 525 with ASTM A 924. |

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| SUBSECTION: | 601.03.03 Proportioning and Requirements. |
| PART: | A) Concrete. |
| TABLE: | INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VARIOUS CLASSES OF CONCRETE |
| REVISION: | Add the following foot note to AA Slump: <i>The Department may allow the slump of AA concrete to be increased up to a 6 inch maximum, provided the w/c ratio does not exceed 0.40 and a high range water reducer (Type F or G) is used. Trial Batches will be required if producer has not previously supplied.</i> |
| SUBSECTION: | 601.03.03 Proportioning and Requirements. |
| PART: | A) Concrete. |
| TABLE: | INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VARIOUS CLASSES OF CONCRETE |
| REVISION: | Replace note 11 with the following: <i>Compressive Strength Testing, Opening to Traffic and Acceptance Requirements for Class M1 and Class M2. Test one set of cylinders at 24 ± 0.5 hours from the time of molding, and allow the resulting average strength to dictate one of the following actions:</i> <i>(a) If the average compressive strength is 3,500 psi or above, open to traffic, and test the remaining set of cylinders at an age of 7 days or 28 days.</i> <i>(b) If the average compressive strength is between 3,000 and 3,500 psi, open to traffic, and test the remaining set of cylinders at $48 \pm$ one hour.</i> <i>(c) If the average compressive strength is less than 3,000 psi, protect the item as directed or approved. Test the remaining set of cylinders at $48 \pm$ one hour.</i> <i>If the average strength of the cylinders tested at $48 \pm$ one hour is 3,500 psi or above, the Engineer will consider the concrete acceptable. If the average strength is below 3,500 psi, take 2 cores from the concrete and test at an age of 7 days. If the average strength of the cores tested at 7 days is 4,000 psi, the Engineer will consider the concrete acceptable.</i> <i>When 2 consecutive first sets of cylinders or when 2 first sets out of any 4 first sets of cylinders do not reach 3,500 psi, compressive strength, the Engineer will suspend the work. Resume work when the Engineer approves the adjusted mix design.</i> <i>Cast 2 sets of cylinders from the concrete used for each placement.</i> <i>Cast the cylinders after tests verify that the concrete conforms to slump and air content requirements. Make and cure the cylinders according to the procedures outlined in KM 64-305. Department personnel will test the mixture and cast cylinders.</i> |
| SUBSECTION: | 601.03.03 Proportioning and Requirements. |
| PART: | C) Mixtures Using Type IP, IS and I(SM) Cement or Mineral Admixtures. |
| NUMBER: | 2) Mineral Admixtures. |
| REVISION: | Add the following after the first sentence: <i>Reduction of the total cement content by a combination of any mineral admixtures will be allowed, up to a maximum of 30 percent.</i> |
| SUBSECTION: | 601.03.03 Proportioning and Requirements. |
| PART: | C) Mixtures Using Type IP Cement or Mineral Admixtures. |
| NUMBER: | 2) Mineral Admixtures. |
| LETTER: | b) Ground Granulated Blast Furnace Slag (GGBF Slag). |
| REVISION: | Replace the first sentence with the following: <i>When added as a separate ingredient, use Grade 120 GGBF or 100 GGBF slag to reduce the quantity of cement, except do not use GGBF slag to reduce the quantity of Type IS or I(SM) cement.</i> |
| SUBSECTION: | 601.03.04 Classes and Primary Uses. |
| PART: | P) Non-Shrink Grout. |
| REVISION: | Replace with the following: <i>Bonding and sealing for post-tensioning, tie-back rods and bolts, and box beams.</i> |

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| SUBSECTION: | 601.03.09 Placing Concrete. |
| PART: | A) General. |
| REVISION: | Add the following to the fifth paragraph: When pumping, equip the delivery pipe with a nozzle, having 2 right angles, at the discharge end. |
| SUBSECTION: | 601.03.09 Placing Concrete. |
| PART: | D) Weather Limitations. |
| REVISION: | Replace the first sentence of the second paragraph with the following: Maintain the temperature of the mixture at or below 90 °F during placement. Unless the Engineer determines that safety concerns or other considerations prohibit a shutdown, cease concrete production when the mixture exceeds 90 °F until adequate methods are in place to reduce or maintain the mixture temperature. |
| SUBSECTION: | 601.03.15 Opening to Traffic. |
| TABLE: | Required Time in Calendar Days Before Applying Significant Loads on Concrete Structures |
| REVISION: | Change the title of the seventh item to the following: Caps on Concrete Pile Bents, Open Column Abutments, and Piers |
| SUBSECTION: | 606.02.09 Structural Steel. |
| REVISION: | Replace the subsection reference of "811" with "812" |
| SUBSECTION: | 606.02 MATERIALS AND EQUIPMENT. |
| REVISION: | Add the following subsection: 606.02.11 Coarse Aggregate. Conform to Section 805, size 9-M. |
| SUBSECTION: | 607.03.05 Bolted Connections Using High-Strength Steel Bolts. |
| PART: | B) Direct Tension Indicators. |
| REVISION: | Replace the first two sentences of the third paragraph with the following: Under normal conditions, install the tension indicator under the non-turned element of the fastening system. Obtain the Engineer's permission before installing tension indicators under the turned element. If the Engineer determines that it is necessary to install the tension indicator under the turned element, install additional hardened washers according to the manufacturer's instructions. Add the following to the end of the fourth paragraph: The fastener assembly may also need to be replaced. |
| SUBSECTION: | 607.03.08 Planing and Finishing. |
| PART: | B) Flame Cutting. |
| REVISION: | Replace the first sentence of the second paragraph with the following: Remove roughness exceeding these values and occasional notches or gouges no more than 3/16 inch deep, on otherwise satisfactory surfaces, by machining or grinding. |

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| SUBSECTION: | 607.03.23 Cleaning and Painting. |
| PART: | D) Preparation for Field Coatings. |
| REVISION: | Replace the second and third paragraphs with the following: <p>After erection, including all bolting and remedial work, prepare the shop applied zinc coating for field applied intermediate coating as follows. Remove all grease, oil or other lubricants from all surfaces to be painted including lubricant or residuals from the surfaces of all galvanized nuts, bolts and washers by solvent cleaning according to SSPC SP 1. When dry overspray from the shop applied zinc coating exists, remove by sanding. High pressure water wash all structural steel at 4,500 to 5,000 psi. using clean potable water. As needed, use a non-sudsing, bio-degradable detergent to remove all surface contaminants not removed by high pressure water washing. Rinse all areas where a detergent and/or solvent was applied by pressure washing with clean potable water. Blast clean all surfaces sustaining damage to the shop applied zinc coating to the pictorial standards described in subsection B. Apply a field coat of approved zinc rich coating to all areas not possessing an acceptable shop applied zinc coating. Completely remove all rust, scale and other foreign material before applying the intermediate coating.</p> <p>When application of the finish coat exceeds the recoat window of the intermediate coat, abrade the surface of the intermediate coat according to the coating manufacturer's recommendations before applying the finish coat.</p> |
| SUBSECTION: | 607.03.23 Cleaning and Painting. |
| PART: | E) Application of Field Coatings. |
| REVISION: | Replace the second paragraph with the following: <p>Apply paint only to clean and dry surfaces when the ambient air temperature is 40 °F or greater, the surface temperature of the steel members to be painted is at least 5 °F above the dew point, and the relative humidity is less than 90 percent. Do not apply paint to damp or frosted surfaces, nor during any period of rainfall.</p> <p>Replace the fifth paragraph with the following:</p> <p>Paint from the top of the structure toward the bottom, and proceed by sections, bays, or parts of the work, unless the Contract or Engineer directs otherwise.</p> |
| SUBSECTION: | 611.02.01 Concrete. |
| REVISION: | Replace the first sentence with the following: <p>Conform to ASTM C 1433.</p> |
| SUBSECTION: | 611.03.01 Transportation and Handling. |
| REVISION: | Replace the first sentence with the following: <p>Handle and store the precast units so that flexural stresses are not induced until the concrete age is 7 days or attains a compressive strength of 3,000 psi.</p> |
| SUBSECTION: | 611.03.02 Precast Unit Construction. |
| REVISION: | Add the following: <p>4) Contrary to ASTM C 1433 Section 10.3, assure the compressive strength of the cores tested are equal to or greater than the design strength.</p> |
| SUBSECTION: | 611.03.07 Joints. |
| PART: | A) Rubber Gaskets. |
| REVISION: | Replace the title with the following: <p>A) Butyl Rubber Sealant.</p> |
| SUBSECTION: | 611.03.07 Joints. |
| PART: | B) Flexible Plastic Gaskets. |
| REVISION: | Replace the title with the following: <p>B) Rubber Gaskets.</p> |

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| SUBSECTION: | 613.05 PAYMENT. |
| REVISION: | Replace 8160 Structure Excavation with the following: 2203 Structure Excavation Unclassified |
| SUBSECTION: | 614.02.01 Paint. |
| REVISION: | Add the following: Furnish a paint system in which all coats are produced by the same manufacturer and use the same system throughout the entire project. |
| SUBSECTION: | 614.03.06 Paint Application. |
| REVISION: | Replace the first sentence of the fourth paragraph with the following: Paint from the top of the structure toward the bottom, and proceed by sections, bays, or parts of the work, unless the Contract or Engineer directs otherwise. |
| SUBSECTION: | 701.02.03 Joint Materials. |
| PART: | D) Flexible Plastic Gaskets. |
| REVISION: | Replace with the following: D) Butyl Rubber Sealants. Conform to Section 807. |
| SUBSECTION: | 701.02.04 Bedding Materials. |
| REVISION: | Replace the first sentence with the following: Use No. 8 aggregate, No. 9 aggregate, or a fine aggregate conforming to Subsection 804.08 for bedding material. |
| SUBSECTION: | 701.02.04 Bedding Materials. |
| TABLE: | A1, A2, and A3 Characteristics |
| REVISION: | Under A3, replace "51 max" with "51 min" |
| SUBSECTION: | 702.03.05 Joints. |
| PART: | A) Reinforced Concrete Pipe. |
| NUMBER: | 2) Rubber Gaskets. |
| REVISION: | Replace with the following: In addition to the requirements of Subsection 701.02, use a pipe section conforming to AASHTO M 315. Use the gasket manufacturer's recommended cement and lubricant. Snugly fit the rubber gasket in the beveled surface of the tongue and groove ends of the sections to form a flexible seal under all conditions of service. |
| SUBSECTION: | 701.03.05 Joints. |
| PART: | B) Corrugated Metal Pipe. |
| REVISION: | Void the Revision and replace with the following: Construct joints using a band with annular corrugations and a bolt, bar and strap connection. Use a minimum nominal band width of 12 inches for all pipe diameters 54 inches and smaller. Use a two-piece band with a minimum nominal width of 20 inches for all pipe diameters greater than 54 inches. Manufacture the band from the same base materials as the pipe. The pipe bands may be up to two gauges lighter than the pipe it is joining, with a minimum gauge thickness of 16. The Department may allow dimple band connections for field cut pipe. Install the connecting bands according to the manufacturer's written recommendations. |
| SUBSECTION: | 703.02.09 Geotextile Fabric. |
| REVISION: | Replace Section reference 845 with 843. |
| SUBSECTION: | 703.04.08 Geotextile Fabric. |
| REVISION: | Add the subsection: 703.04.08 Geotextile Fabric. The Department will measure the quantity according to Subsection 214.04. |
| SUBSECTION: | 710.02 MATERIALS. |
| REVISION: | Add the following Subsection: 710.02.15 High Density Polyethylene (HDPE) Adjusting Rings. Conform to Section 846. |

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| SUBSECTION: | 710.03.01 Newly Constructed Small Drainage Structures. |
| PART: | A) General. |
| REVISION: | Replace the last sentence of the sixth paragraph with the following: Use precast concrete, precast concrete pipe sections, cast-in-place, brick, or HDPE adjusting rings for adjustment of existing manholes according to the Standard Specifications. |
| SUBSECTION: | 710.03.01 Newly Constructed Small Drainage Structures. |
| PART: | B) Precast Structures Except Manholes. |
| REVISION: | Replace the first two sentences with the following: Only furnish products manufactured by a precast producer listed in the Department's List of Approved Materials. If the producer does not have an approved drawing for the product, submit 5 copies of shop drawings to the Engineer for review and approval. |
| SUBSECTION: | 710.03.03 Adjusted Small Drainage Structures. |
| REVISION: | Add the following sentence to the end of the first paragraph: For HDPE adjusting rings, install and seal according to the manufacturer's recommendations. |
| SUBSECTION: | 712.03.02 Type V Markers. |
| REVISION: | Replace the first sentence of the first paragraph with the following: Install Type V Markers in slots cut into the pavement according to the manufacturer's recommendations. Delete the last paragraph. |
| SUBSECTION: | 713.02.02 Drop on Glass Beads. |
| REVISION: | Replace with the following: Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. The Department will evaluate the beads as part of the marking system through retroreflectivity readings. |
| SECTION: | 713 PERMANENT PAVEMENT STRIPING. |
| REVISION: | Add the following subsection: 713.03.06 Acceptance of Non-Specification Markings. If weather conditions allow, perform corrective work to bring striping retroreflectivity into conformance. If corrective work has been performed and the work meets all requirements except for minimum retroreflectivity, the Department may accept the work according to Subsection 105.04. When the Engineer determines that the markings may be left in place, the Department will accept them at a reduction in the Contract unit bid price according to the Acceptance Pay Schedule. Additionally, the Engineer may remove the striping crew for the remainder of the project according to Subsection 108.06 Part A). The Engineer may also apply this section when corrective work cannot be performed due to weather. Acceptance Pay Schedule – White 156 to 174 mcd/lux/square meter – 50% pay 138 to 155 mcd/lux/square meter – 25% pay 120 to 137 mcd/lux/square meter – 0% pay < 120 mcd/lux/square meter – unacceptable Acceptance Pay Schedule – Yellow 126 to 149 mcd/lux/square meter – 50% pay 103 to 125 mcd/lux/square meter – 25% pay 80 to 102 mcd/lux/square meter – 0% pay < 80 mcd/lux/square meter – unacceptable |

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| SUBSECTION: | 713.03 CONSTRUCTION. |
| REVISION: | Replace the MUTCD references to "Part III" with "Part 3" |
| SUBSECTION: | 714.02.03 Binder. |
| REVISION: | Replace the last sentence with the following: Submit the material and method of application to the Engineer and obtain written approval from the Engineer and the manufacturer of the pavement marking material before applying. |
| SUBSECTION: | 714.02.04 Drop on Glass Beads. |
| REVISION: | Replace with the following: Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. The Department will evaluate the beads as part of the marking system through retroreflectivity readings. |
| SUBSECTION: | 714.03 CONSTRUCTION. |
| REVISION: | Replace the MUTCD references to "Part III" with "Part 3" and figure references to "3-11 and 3-12" with "3B-8 and 3B-9" |
| SUBSECTION: | 714.03.01 Layout. |
| REVISION: | Replace the MUTCD reference to "Part III" with "Part 3" |
| SUBSECTION: | 714.03.03 Application. |
| PART: | A) Type I Tape. |
| REVISION: | Add the following: When applied to concrete, cut the tape at all joints. |
| SUBSECTION: | 714.03.04 Restrictions. |
| REVISION: | Replace the first paragraph with the following: Do not apply the pavement marking material when air and pavement temperatures are below 50 °F. Delete the third paragraph. |
| SUBSECTION: | 714.03.06 Proving Period for Durable Markings. |
| PART: | A) Requirements. |
| NUMBER: | 1) Type I Tape. |
| REVISION: | Add the following: Type I Tape is manufactured off site and warranted by the manufacturer to meet certain retroreflective requirements. As long as the material is adequately bonded to the surface and shows no sign of failure due to the other items listed in Subsection 714.03.06 A) 1), retroreflectivity readings will not be required. In the absence of readings, the Department will accept tape based on a nighttime visual observation. |
| SUBSECTION: | 714.03.06 Proving Period for Durable Markings. |
| PART: | A) Requirements. |
| NUMBER: | 2) Thermoplastic. |
| REVISION: | Replace the first sentence of the second paragraph with the following: The minimum retroreflectivity requirements at the end of the proving period, as measured with a LTL 2000, LTL 2000Y, or Department approved 30M geometry mobile instrument are as follows: Replace the first sentence of the third paragraph with the following: The Department will take these measurements between 150 and 210 days after the start of the proving period, basing acceptance on KM 202 for LTL 2000 readings and KM 203 for mobile readings. |
| SUBSECTION: | 714.05 PAYMENT. |
| REVISION: | Replace with the following: The Department will make payment upon completion of the work. If after the proving period the markings do not meet minimum retroreflectivity requirements, the Department will adjust the payment or require corrective work according to the following: |

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| SUBSECTION: | 717.02.04 Drop on Glass Beads. |
| REVISION: | Replace with the following: Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. The Department will evaluate the beads as part of the marking system through retroreflectivity readings. |
| SECTION: | 804.03 Concrete. |
| REVISION: | Replace the last sentence with the following: The Department will waive the requirements for gradation, sand equivalent, and uncompacted voids for concrete pipe. |
| SUBSECTION: | 804.04.04 Requirements for Combined Aggregates. |
| PART: | B) Sand Equivalent |
| REVISION: | Replace the third paragraph with the following: The Department may waive the sand equivalent requirement provided the portion of the combined aggregate passing the No. 40 sieve is non-plastic according to AASHTO T 90. |
| SUBSECTION: | 804.04.04 Requirements for Combined Aggregates KM. |
| TABLE: | Superpave Fine Aggregate Consensus Property Requirements. |
| REVISION: | For ESAL Class 1, Replace both dashes with 40. |
| SUBSECTION: | 805.03.01 Soundness and Shale. |
| PART: | AGGREGATE USE/Portland Cement Concrete Mixtures. |
| REVISION: | Replace the title use "Class AA, Class S and Bridge Deck Overlays" with "Aggregate for Bridge Decks, Bridge Deck Overlays, and Bridge Barrier Walls" |
| SECTION: | 805 COARSE AGGREGATES. |
| TABLE: | Sizes of Coarse Aggregates. |
| REVISION: | Replace KM 64-420 in footnote (1) with KM 64-620. |
| SECTION: | 805 COARSE AGGREGATES. |
| TABLE: | Aggregates Size Use. |
| REVISION: | For Cement Concrete Structures and Incidental Construction add 9-M for Overlays to the sizes to be used column. |
| SUBSECTION: | 805.03.03 Gradation. |
| REVISION: | Replace the last sentence with the following: The Department will allow blending of same source/same type aggregate to achieve designated sizes when precise procedures are used such as cold feeds, belts, weigh hoppers, or equivalent. |
| SUBSECTION: | 805.03.04 Erodible or Unstable Material. |
| REVISION: | Add the subsection: 805.03.04 Erodible or Unstable Material. Treat as applicable. The Department considers Size No. 57 or larger aggregate, except crushed or uncrushed gravel, non-erodible. The Department considers the following materials to be erodible or unstable: 1) Friable sandstone. The Engineer determines when sandstone is friable or non-friable. 2) Crushed or uncrushed gravel, any size. 3) Crushed coarse aggregate smaller than Size No. 57. 4) Any material with 50 percent or more passing the No. 4 sieve. |
| SUBSECTION: | 805.04 CONCRETE. |
| REVISION: | Replace the second paragraph with the following: The Department will waive the requirements for gradation and finer than No. 200 for concrete pipe. |
| SUBSECTION: | 805.10 GRANULAR EMBANKMENT. |
| REVISION: | Replace "2 ½-inch" with "12-inch". |
| SUBSECTION: | 805.10 GRANULAR EMBANKMENT. |
| PART: | 1) |
| REVISION: | Replace with the following: 1) Engineer approved shot limestone or sandstone from roadway excavation, borrow excavation, or another approved source. |

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| SUBSECTION: | 805.11 STRUCTURE GRANULAR BACKFILL. | | | | | | | | | | | | | | | | | | | |
|-------------------|--|-----------------|-----------------|--------|-----|-------|-------------------|---------|-----|------------|--|-----|-----|-----|-----|-------|-----|-----|----|----|
| REVISION: | Replace with the following: Provide crushed or uncrushed aggregate meeting the quality requirements of this section. When the material includes a significant amount of individual fragments greater than 1 ½ inches, the Engineer may visually accept the minus No. 200 portion. Conform to the following gradation: | | | | | | | | | | | | | | | | | | | |
| | <table><tr><td>Sieve Size</td><td>Percent Passing</td></tr><tr><td>4 inch</td><td>100</td></tr><tr><td>No. 4</td><td>0-10</td></tr><tr><td>No. 200</td><td>0-5</td></tr></table> | Sieve Size | Percent Passing | 4 inch | 100 | No. 4 | 0-10 | No. 200 | 0-5 | | | | | | | | | | | |
| Sieve Size | Percent Passing | | | | | | | | | | | | | | | | | | | |
| 4 inch | 100 | | | | | | | | | | | | | | | | | | | |
| No. 4 | 0-10 | | | | | | | | | | | | | | | | | | | |
| No. 200 | 0-5 | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 805.13.03 Channel Lining, Class IA. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace the first sentence with the following: Provide crushed stone meeting the general requirements of this section. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 805.13.04 Channel Lining, Class II. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace the first sentence with the following: Provide crushed stone meeting the general requirements of this section. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE. | | | | | | | | | | | | | | | | | | | |
| TABLE: | GRADATION - COARSE AGGREGATES FOR UNDERDRAINS | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace "No. 200" sieve with "No. 100". | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 810.03.04 Extra Protection | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace "mm" in the second sentence of the second paragraph with "inches". | | | | | | | | | | | | | | | | | | | |
| SECTION: | 810.03 REINFORCED CONCRETE PIPE. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Add new subsection: 810.03.07 Concrete. Submit Concrete Mix Design to the Central Office Materials. | | | | | | | | | | | | | | | | | | | |
| SECTION: | 812.01.01 Structural Steel, All Types. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace second sentence with the following: When the supplementary requirement of this specification are specified, they exceed the requirements of ASTM A 36, A 514, A 572, A 588, and ASTM A 852. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 812.01.01 Structural Steel, All Types. | | | | | | | | | | | | | | | | | | | |
| PART: | A) Structural Steel. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Delete AASHTO M 183. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 812.01.01 Structural Steel, All Types. | | | | | | | | | | | | | | | | | | | |
| PART: | B) High-Strength Low-Alloy Columbium-Vandium Steels of Structural Quality. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Delete AASHTO M 223. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 812.01.01 Structural Steel, All Types. | | | | | | | | | | | | | | | | | | | |
| PART: | C) High-Strength Low-Alloy Structural Steel with 345 Mpa Minimum Yield Point to 4 Inches Thick. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Delete AASHTO M 222. | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 812.01.01 Structural Steel, All Types. | | | | | | | | | | | | | | | | | | | |
| PART: | E) High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Delete AASHTO M 244. | | | | | | | | | | | | | | | | | | | |
| SECTION: | 813.08.05 Aluminum Alloy Rolled or Extruded Shapes. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace "T-4 AND T6" with "T6". | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 813.09.02 High-Strength Steel Bolts, Nuts, and Washers. | | | | | | | | | | | | | | | | | | | |
| PART: | A) Bolts. | | | | | | | | | | | | | | | | | | | |
| REVISION: | <table><tr><th colspan="5">HARDNESS NUMBER</th></tr><tr><th rowspan="3">Bolt Size (in)</th><th colspan="2">Brinell</th><th colspan="2">Rockwell C</th></tr><tr><th>Min</th><th>Max</th><th>Min</th><th>Max</th></tr><tr><td>½ - 1</td><td>253</td><td>319</td><td>25</td><td>34</td></tr></table> | HARDNESS NUMBER | | | | | Bolt Size (in) | Brinell | | Rockwell C | | Min | Max | Min | Max | ½ - 1 | 253 | 319 | 25 | 34 |
| HARDNESS NUMBER | | | | | | | | | | | | | | | | | | | | |
| Bolt Size (in) | Brinell | | Rockwell C | | | | | | | | | | | | | | | | | |
| | Min | Max | Min | Max | | | | | | | | | | | | | | | | |
| | ½ - 1 | 253 | 319 | 25 | 34 | | | | | | | | | | | | | | | |
| SUBSECTION: | 813.13 MATTRESSES AND GABIONS. | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace the first sentence of the first paragraph with the following: Conform to ASTM A 975, Style 1 or ASTM A 974, Style 1 or 2. | | | | | | | | | | | | | | | | | | | |

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| SUBSECTION: | 814.04.01 Steel Guardrail Posts. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--------------|--------------------------------|---|---|--|---|---|---|--|---|--|---|---------------------------------------|-----|--|-----|--|-----|--------------------------------|-----|--|-----|---|-----|------------------------------------|-----|---|----|
| REVISION: | Replace AASHTO M 183 in the first sentence with ASTM A 36. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 814.05.02 Composite Plastic. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REVISION: | Add the following sentence to the first paragraph: Rubber is an acceptable alternate to plastic in their composition. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 814.06 MATERIALS FOR END TREATMENTS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART: | D) Steel Sheet (for rail plates and mounting brackets). | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace 570, Grade D with the 1011, Type SS, Grade 36. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 816.02 GENERAL. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace ASTM D 2521 with ASTM A 239. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 816.02.02 Aluminum-Coated Steel. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace 0.01 with 0.099. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 819.01.01 Steel Plates. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace "Paragraph 14" in the second sentence of the second paragraph with "Table 6". | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 821.03 SAMPLING AND TESTING. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REVISION: | In the third sentence of the first paragraph, replace calendar days with working days. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 827.04 PERMANENT SEED. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace with the following: Conform to the requirements outlined in the "Kentucky Seed Law and Provisions for Seed Certification in Kentucky" and the "Regulations under the Kentucky Seed Law", with following exceptions: <ol style="list-style-type: none"> 1. Obtain seed only through registered dealers that are permitted for labeling of seed. 2. Ensure all deliveries/shipments of premixed seed are accompanied with a master blend sheet. 3. The Department may sample the seed at the job site at any time. 4. Ensure all bags and containers have an acceptable seed tag attached. <p>Do not use seed (grasses, native grasses and legumes) if the weed seed is over 2%, total germination (including hard seed) is less than 60%, if the seed test date is over 9 months old exclusive of the month tested, or if the limits of noxious weed seed is exceeded.</p> <p>Ensure that noxious weed seeds contained in any seed or seed mixture does not exceed the maximum permitted rate of occurrence per pound.</p> <table> <thead> <tr> <th>Name of Kind</th><th>Max. No. Seeds (per pound)*</th></tr> </thead> <tbody> <tr> <td>Balloon Vine (<i>Cardiospermum Halicacabum</i>)</td><td>0</td></tr> <tr> <td>Purple Moonflower (<i>Ipomoea turbinata</i>)</td><td>0</td></tr> <tr> <td>Canada Thistle (<i>Cirsium Arvense</i>)</td><td>0</td></tr> <tr> <td>Johnsongrass (<i>Sorghum Halepense</i> and <i>Sorghum Almun</i> and perennial rhizomatous derivatives of these species)</td><td>0</td></tr> <tr> <td>Quackgrass (<i>Elytrigia Repens</i>)</td><td>0</td></tr> <tr> <td>Annual Bluegrass (<i>Poa Annua</i>)</td><td>256</td></tr> <tr> <td>Buckhorn Plantain (<i>Plantago lanceolata</i>)</td><td>304</td></tr> <tr> <td>Corncockle (<i>Agrostemma Githago</i>)</td><td>192</td></tr> <tr> <td>Dodder (<i>Cuscuta spp.</i>)</td><td>192</td></tr> <tr> <td>Giant Foxtail (<i>Setaria Faberii</i>)</td><td>192</td></tr> <tr> <td>Oxeye Daisy (<i>Chrysanthemum leucanthemum</i>)</td><td>256</td></tr> <tr> <td>Sorrel (<i>Rumex Acetosella</i>)</td><td>256</td></tr> <tr> <td>Wild Onion and Wild Garlic (<i>Allium spp.</i>)</td><td>96</td></tr> </tbody> </table> <p>* Seed or seed mixtures that contain in excess of 480 total noxious seeds per pound is prohibited Wildflower seed shall not be planted until approved by the MCL.</p> | Name of Kind | Max. No. Seeds (per pound)* | Balloon Vine (<i>Cardiospermum Halicacabum</i>) | 0 | Purple Moonflower (<i>Ipomoea turbinata</i>) | 0 | Canada Thistle (<i>Cirsium Arvense</i>) | 0 | Johnsongrass (<i>Sorghum Halepense</i> and <i>Sorghum Almun</i> and perennial rhizomatous derivatives of these species) | 0 | Quackgrass (<i>Elytrigia Repens</i>) | 0 | Annual Bluegrass (<i>Poa Annua</i>) | 256 | Buckhorn Plantain (<i>Plantago lanceolata</i>) | 304 | Corncockle (<i>Agrostemma Githago</i>) | 192 | Dodder (<i>Cuscuta spp.</i>) | 192 | Giant Foxtail (<i>Setaria Faberii</i>) | 192 | Oxeye Daisy (<i>Chrysanthemum leucanthemum</i>) | 256 | Sorrel (<i>Rumex Acetosella</i>) | 256 | Wild Onion and Wild Garlic (<i>Allium spp.</i>) | 96 |
| Name of Kind | Max. No. Seeds (per pound)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balloon Vine (<i>Cardiospermum Halicacabum</i>) | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Purple Moonflower (<i>Ipomoea turbinata</i>) | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Canada Thistle (<i>Cirsium Arvense</i>) | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Johnsongrass (<i>Sorghum Halepense</i> and <i>Sorghum Almun</i> and perennial rhizomatous derivatives of these species) | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quackgrass (<i>Elytrigia Repens</i>) | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annual Bluegrass (<i>Poa Annua</i>) | 256 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Buckhorn Plantain (<i>Plantago lanceolata</i>) | 304 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corncockle (<i>Agrostemma Githago</i>) | 192 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dodder (<i>Cuscuta spp.</i>) | 192 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Giant Foxtail (<i>Setaria Faberii</i>) | 192 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oxeye Daisy (<i>Chrysanthemum leucanthemum</i>) | 256 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sorrel (<i>Rumex Acetosella</i>) | 256 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wild Onion and Wild Garlic (<i>Allium spp.</i>) | 96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSECTION: | 832.02 TYPE I POSTS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REVISION: | Replace ASTM A 570 with ASTM A 1011. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|-------------------------------|---|-------------------------------|------------------|----------------------|-------------------------------|----------------------|------------------------------|--------------------|-------------|
| SECTION: | 840 RAISED PAVEMENT MARKERS | | | | | | | | |
| REVISION: | Replace the section with the following: 840.01 TYPE IV MARKERS. Provide markers from the Department's List of Approved Materials. Type IV markers are replacement lenses for use in Type V marker castings. 840.02 TYPE V MARKERS. Provide markers from the Department's List of Approved Materials. Type V markers consist of an iron casting with a Type IV marker (mono or bi-directional) attached. 840.03 TYPE IVA MARKERS. Provide markers from the Department's List of Approved Materials. Type IVA markers are surface mounted lenses for temporary use in work zones. 840.04 SAMPLING. Obtain a manufacturer's certification for each shipment. Include with each shipment of adhesive a written statement from the manufacturer certifying that it conforms to the recommendations of the marker manufacturer, and stating the minimum temperature the adhesive can be satisfactorily mixed and applied. 840.05 PACKAGING. Suitably and substantially package all materials with the name and address of the manufacturer and vendor, contract or purchase number, kind of material, trade name, and net contents plainly marked on each package. | | | | | | | | |
| SUBSECTION: | 843.01.01 Geotextile Fabric. | | | | | | | | |
| REVISION: | Add the following sentence to the first paragraph: Use circular-knit geotextile conforming to ASTM D 6707 for perforated pipe socks. Add the following sentence to the third paragraph: The manufacturer must participate in the National Transportation Product Evaluation Program (NTEP) for Geotextiles and Geosynthetics. | | | | | | | | |
| SUBSECTION: | 843.01.01 Geotextile Fabric. | | | | | | | | |
| PART: | C) Acceptance. | | | | | | | | |
| REVISION: | Delete the burst strength requirement from each table. | | | | | | | | |
| SUBSECTION: | 845.02.03 Wrapping. | | | | | | | | |
| REVISION: | Replace Section 845 with Section 843, Type II. | | | | | | | | |
| SECTION: | 846 HIGH DENSITY POLYETHYLENE (HDPE) ADJUSTING RINGS | | | | | | | | |
| REVISION: | Add New Section: 846.01 RESIN. Use a recycled polyethylene plastic or virgin resin producing a molded part meeting the following requirements: <table style="margin-left: 100px;"> <tr> <td>Melt Flow Index (ASTM D 1238)</td><td>4.0-10.0 g/10min</td></tr> <tr> <td>Density (ASTM D 792)</td><td>0.941-0.965 g/cm³</td></tr> <tr> <td>Tensile (ASTM D 638)</td><td>2000-5000 lb/in²</td></tr> <tr> <td>ESCR (ASTM D 1693)</td><td>Condition C</td></tr> </table> 846.02 LOADING. Ensure the adjustment rings meet or exceed the loading requirements of AASHTO'S Standard Specification for HS-25 wheel loading for Highway Bridges. | Melt Flow Index (ASTM D 1238) | 4.0-10.0 g/10min | Density (ASTM D 792) | 0.941-0.965 g/cm ³ | Tensile (ASTM D 638) | 2000-5000 lb/in ² | ESCR (ASTM D 1693) | Condition C |
| Melt Flow Index (ASTM D 1238) | 4.0-10.0 g/10min | | | | | | | | |
| Density (ASTM D 792) | 0.941-0.965 g/cm ³ | | | | | | | | |
| Tensile (ASTM D 638) | 2000-5000 lb/in ² | | | | | | | | |
| ESCR (ASTM D 1693) | Condition C | | | | | | | | |

SPECIAL PROVISIONS FOR PROTECTION OF RAILWAY INTEREST

1. AUTHORITY OF RAILROAD ENGINEER AND DEPARTMENT ENGINEER:

The authorized representative of the Railroad Company, hereinafter referred to as Railroad Engineer, shall have final authority in all matters affecting the safe maintenance of Railroad traffic of his Company including the adequacy of the foundations and structures supporting the Railroad tracks.

The authorized representative of the Department, hereinafter referred to as the Engineer, shall have authority over all other matters as prescribed herein and in the Project Specifications.

2. NOTICE OF STARTING WORK:

A. The contractor shall not commence any work on railroad rights-of-way until he has complied with the following conditions:

- a. Given the Railroad written notice, with copy to the Engineer who has been designated to be in charge of the work, at least ten days in advance of the date he proposes to begin work on Railroad rights-of-way.

Office of Chief Engineer
Bridges & Structures
Norfolk Southern Corporation
99 Spring Street, SW
Atlanta, Georgia 30303

- b. Obtained written authorization from the Railroad to begin work on Railroad rights-of-way, such authorization to include an outline of specific conditions with which he must comply.
- c. Obtained written approval from the Railroad of Railroad Protective Insurance Liability coverage as required by paragraph 14 herein.
- d. Furnished a schedule for all work within the Railroad rights-of-way as required by paragraph 7,B,1.

B. The Railroad's written authorization to proceed with the work shall include the names, addresses, and telephone numbers of the Railroad's representatives who are to be notified as hereinafter

required. Where more than one representative is designated, the area of responsibility of each representative shall be specified.

3. INTERFERENCE WITH RAILROAD OPERATIONS:

- A. The Contractor shall so arrange and conduct his work that there will be no interference with Railroad operations, including train, signal, telephone and telegraphic services, or damage to the property of the Railroad Company or to poles, wires, and other facilities of tenants on the rights-of-way of the Railroad Company. Whenever work is liable to affect the operations or safety of trains, the method of doing such work shall first be submitted to the Railroad Engineer for approval, but such approval shall not relieve the Contractor from liability. Any work to be performed by the Contractor which requires flagging service or inspection service shall be deferred by the Contractor until the flagging service or inspection service required by the Railroad is available at the site.
- B. Whenever work within Railroad rights-of-way is of such a nature that impediment to Railroad operations such as use of runaround tracks or necessity for reduced speed is unavoidable, the Contractor shall schedule and conduct his operations so that such impediment is reduced to the absolute minimum.
- C. Should conditions arising from, or in connection with the work, requiring that immediate and unusual provisions are made to protect operations and property of the Railroad, the Contractor shall make such provisions. If in the judgment of the Railroad Engineer, or in his absence, the Engineer, such provisions is insufficient, either may require or provide such provisions as he deems necessary. In any event, such unusual provisions shall be at the Contractor's expense and without cost to the Railroad or the Department.

4. TRACK CLEARANCES:

- A. The minimum track clearances to be maintained by the Contractor during construction are shown on the Project Plans. However, before undertaking any work within Railroad right-of-way, or before placing any obstruction over any track, the Contractor shall:
 - 1. Notify the Railroad's representative at least 72 hours in advance of the work.
 - 2. Receive assurance from the Railroad's representative that arrangements have been made for flagging service as may be necessary.

3. Receive permission from the Railroad's representative to proceed with the work.
4. Ascertain that the Engineer has received copies of notice to the Railroad and of the Railroad's response thereto.

5. **CONSTRUCTION PROCEDURES:**

A. **General:**

Construction work and operations by the Contractor on Railroad property shall be:

1. Subject to the inspection and approval of the Railroad.
2. In accord with the Railroad's written outline of specific conditions.
3. In accord with the Railroad's general rules, regulations and requirements including those relating to safety, fall protection and personal protective equipment.
4. In accord with these Special Provisions.

B. **Excavation:**

The subgrade of an operated track shall be maintained with edge of beam at least 10'-0" from centerline of track and not more than 24-inches below top of rail. Contractor will not be required to make existing section meet this specification if substandard, in which case existing section will be maintained.

C. **Excavation for Structures:**

The Contractor will be required to take special precaution and care in connection with excavating and shoring pits, and in driving piles or sheeting for footings adjacent to tracks to provide adequate lateral support for the tracks and the loads which they carry, without disturbance of track alignment and surface, and to avoid obstructing track clearances with working equipment, tools or other material. The procedure for doing such work, including need of and plans for shoring, shall first be approved by the Engineer and the Railroad Engineer, but such approval shall not relieve the Contractor from liability.

D. Blasting:

- 1. The Contractor shall obtain advance approval of the Railroad Engineer and the Engineer for use of explosives on or adjacent to Railroad property. The request for permission to use explosives shall include a detailed blasting plan. If permission for use of explosives is granted, the Contractor will be required to comply with the following:**
 - (a) Blasting shall be done with light charges under the direct supervision of a responsible officer or employee of the Contractor and a licensed blaster.**
 - (b) Electric detonating fuses shall not be used because of the possibility of premature explosions resulting from operation of two-way radios.**
 - (c) No blasting shall be done without the presence of an authorized representative of the Railroad. At least 72 hours advance notice to the person designated in the Railroad's notice of authorization to proceed (see paragraph 2B) will be required to arrange for the presence of an authorized Railroad representative and such flagging as the Railroad may require.**
 - (d) Have at the job site adequate equipment, labor and materials and allow sufficient time to clean up debris resulting from the blasting without delay to trains, as well as correcting at his expense any track misalignment or other damage to Railroad property resulting from the blasting as directed by the Railway's authorized representative. If his actions result in delay of trains, the Contractor shall bear the entire cost thereof.**
- 2. The Railroad representative will:**
 - (a) Determine approximate location of trains and advise the Contractor the appropriate amount of time available for the blasting operation and clean up.**
 - (b) Have the authority to order discontinuance of blasting if, in his opinion, blasting is too hazardous or is not in accord with these special provisions.**

E. Maintenance of Railroad Facilities:

1. The Contractor will be required to maintain all ditches and drainage structures free of silt or other obstructions which may result from his operations and provide and maintain any erosion control measures as required. The Contractor will promptly repair eroded areas within Railroad rights-of-way and repair any other damage to the property of the Railroad or its tenants.
2. All such maintenance and repair of damages due to the Contractor's operations shall be done at the Contractor's expense.

F. Storage of Materials and Equipment:

Materials and equipment shall not be stored where they will interfere with Railroad operations, nor on the rights-of-way of the Railroad Company without first having obtained permission from the Railroad Engineer, and such permission will be with the understanding that the Railroad Company will not be liable for damage to such material and equipment from any cause and that the Railroad Engineer may move or require the Contractor to move, at the Contractor's expense, such material and equipment.

All grading or construction machinery that is left parked near the track unattended by a watchman shall be effectively immobilized so that it cannot be moved by unauthorized persons. The Contractor shall protect, defend, indemnify and save Railroad, and any associated, controlled or affiliated corporation, harmless from and against all losses, costs, expenses, claim or liability for loss or damage to property or the loss of life or personal injury, arising out of or incident to the Contractor's failure to immobilize grading or construction machinery.

G. Cleanup:

Upon completion of the work, the Contractor shall remove from within the limits of the Railroad rights-of-way, all machinery, equipment, surplus materials, falsework, rubbish or temporary buildings of the Contractor, and leave said rights-of-way in a neat condition satisfactory to the Chief Engineer of the Railroad or his authorized representative.

6. DAMAGES:

- A. The Contractor shall assume all liability for any and all damages to his work, employees, servants, equipment and materials caused by Railroad traffic.**
- B. Any cost incurred by the Railroad for repairing damages to its property or to property of its tenants, caused by or resulting from the operations of the Contractor, shall be paid directly to the Railroad by the Contractor.**

7. FLAGGING SERVICES:

A. When Required:

Under the terms of the agreement between the Department and the Railroad, the Railroad has sole authority to determine the need for flagging required to protect its operations. In general, the requirements of such services will be whenever the Contractor's personnel or equipment are or are likely to be, working on the Railroad's right-of-way, or across, over, adjacent to, or under a track, or when such work has disturbed or is likely to disturb a railroad structure or the railroad roadbed or surface and alignment of any track to such extent that the movement of trains must be controlled by flagging.

Normally, the Railroad will assign one flagman to a project; but in some cases, more than one may be necessary, such as yard limits where three (3) flagmen may be required. However, if the Contractor works within distances that violate instructions given by the Railroad's authorized representative or performs work that has not been scheduled with the Railroad's authorized representative, a flagman or flagmen may be required full time until the project has been completed.

B. Scheduling and Notification:

- 1. Not later than the time that approval is initially requested to begin work on Railroad right-of-way, Contractor shall furnish to the Railroad and the Department a schedule for all work required to complete the portion of the project within Railroad right-of-way and arrange for a job site meeting between the Contractor, the Department, and the Railroad. Railroad's authorized representative for this project is Mr. Bill Seay, Bridge & Building Supervisor, Norfolk Southern Corp., 450 Hardin Street, Louisville, KY 40212, telephone 502-775-4985. Flagman or Flagmen may not be provided until the**

job site meeting has been conducted and the Contractor's work scheduled.

2. The Contractor will be required to give the Railroad representative at least 10 working days of advance written notice of intent to begin work within Railroad right-of-way in accordance with this special provision. Once begun, when such work is then suspended at any time, or for any reason, the Contractor will be required to give the Railroad representative at least 3 working days of advance notice before resuming work on Railroad right-of-way. Such notices shall include sufficient details of the proposed work to enable the Railroad representative to determine if flagging will be required. If such notice is in writing, the Contractor shall furnish the Engineer a copy; if notice is given verbally, it shall be confirmed in writing with copy to the Engineer. If flagging is required, no work shall be undertaken until the flagman, or flagmen is present at the job site. It may take up to 30 days to obtain flagging initially from the Railroad. When flagging begins, the flagman is usually assigned by the Railroad to work at the project site on a continual basis until no longer needed and cannot be called for on a spot basis. If flagging becomes unnecessary and is suspended, it may take up to 30 days to again obtain from the Railroad. Due to Railroad labor agreements, it is necessary to give 5 working days notice before flagging service may be discontinued and responsibility for payment stopped.
3. If, after the flagman is assigned to the project site, an emergency arises that requires the flagman's presence elsewhere, then the Contractor shall delay work on Railroad right-of-way until such time as the flagman is again available. Any additional costs resulting from such delay shall be borne by the Contractor and not the Department or Railroad.

C. Payment:

1. The Department will be responsible for paying the Railroad directly for any and all costs of flagging which may be required to accomplish the construction.
2. The estimated cost of flagging is \$395 per day based on a 10-hour workday. This cost includes the base pay for the flagman, overhead, and includes an estimated \$30 per diem charge for travel expenses, meals and lodging. The charge to the Department by the Railroad will be the actual cost based on the rate of pay for the Railroad's employees who are

available for flagging service at the time the service is required.

3. Work by a flagman in excess of 8 hours per day or 40 hours per week, but not more than 12 hours a day will result in overtime pay at 1 and 1/2 times the appropriate rate. Work by a flagman in excess of 12 hours per day will result in overtime at 2 times the appropriate rate. If work is performed on a holiday, the flagging rate is 2 and 1/2 times the normal rate.
4. Railroad work involved in preparing and handling bills will also be charged to the Department. Charges to the Department by the Railroad shall be in accordance with applicable provisions of Subchapter B, Part 140, Subpart I and Subchapter G, Part 646, Subpart B of the Federal-Aid Policy Guide issued by the Federal Highway Administration on December 9, 1991, including all current amendments. Flagging costs are subject to change. The above estimates of flagging costs are provided for information only and are not binding in any way.

D. Verification:

1. The Contractor and Department will review and sign the Railroad flagman's time sheet (Form 11123), attesting that the flagman was present during the time recorded. Flagmen may be removed by the Railroad if form is not signed. If flagman is removed, the Contractor will not be allowed to re-enter the Railroad right-of-way until the issue is resolved. Any complaints concerning flagman or flagmen must be resolved in a timely manner. If need for flagman or flagmen is questioned, please contact Railroad's Engineer Grade Separation Structures (404) 529-1641. All verbal complaints will be confirmed in writing by the Contractor within 5 working days with a copy to the Highway Engineer. Address all written correspondence to:

Office of Chief Engineer
Bridges & Structures
Norfolk Southern Corporation
99 Spring Street, SW
Atlanta, Georgia 30303

Attn: T. D. Wyatt
Engineer Grade Separations

2. The Railroad flagman assigned to the project will be responsible for notifying the Project Engineer upon arrival at the job site on the first day (or as soon thereafter as possible) that flagging services begin and on the last day that he

performs such services for each separate period that services are provided. The Project Engineer will document such notification in the project records. When requested, the Project Engineer will also sign the flagman's diary showing daily time spent and activity at the project site.

8. HAUL ACROSS RAILROAD:

- A. Where the plans show or imply that materials of any nature must be hauled across a Railroad, unless the plans clearly show that the Department has included arrangements for such haul in its agreement with the Railroad, the Contractor will be required to make all necessary arrangements with the Railroad regarding means of transporting such materials across the Railroad. The Contractor will be required to bear all costs incidental to such crossings whether services are performed by his own forces or by Railroad personnel.
- B. No crossing may be established for use of the Contractor for transporting materials or equipment across the tracks of the Railroad Company unless specific authority for its installation, maintenance, necessary watching and flagging thereof and removal, until a private crossing agreement has been executed between the Contractor and Railroad.

9. WORK FOR THE BENEFIT OF THE CONTRACTOR:

- A. All temporary or permanent changes in wire lines or other facilities which are considered necessary to the project are shown on the plans; included in the force account agreement between the Department and the Railroad or will be covered by appropriate revisions to same which will be initiated and approved by the Department and/or the Railroad.
- B. Should the Contractor desire any changes in addition to the above, then he shall make separate arrangements with the Railroad for same to be accomplished at the Contractor's expense.

10. COOPERATION AND DELAYS:

- A. It shall be the Contractor's responsibility to arrange a schedule with the Railroad for accomplishing stage construction involving work by the Railroad or tenants of the Railroad. In arranging his schedule he shall ascertain, from the Railroad, the lead time required for assembling crews and materials and shall make due allowance therefore.

- B. No charge or claim of the Contractor against either the Department or the Railroad Company will be allowed for hindrance or delay on account of railway traffic; any work done by the Railway Company or other delay incident to or necessary for safe maintenance of railway traffic or for any delays due to compliance with these special provisions.

11. TRAINMAN'S WALKWAYS:

Along the outer side of each exterior track of multiple operated track, and on each side of single operated track, an unobstructed continuous space suitable for trainman's use in walking along trains, extending to a line not less than 10 feet from centerline of track, shall be maintained. Any temporary impediments to walkways and track drainage encroachments or obstructions allowed during work hours while Railway's protective service is provided shall be removed before the close of each work day. If there is any excavation near the walkway, a handrail, with 10'-0" minimum clearance from centerline of track, shall be placed.

12. GUIDELINES FOR PERSONNEL ON RAILROAD RIGHT-OF-WAY:

- A. All persons shall wear hard hats. Appropriate eye and hearing protection must be used. Working in shorts is prohibited. Shirts must cover shoulders, back and abdomen. Working in tennis or jogging shoes, sandals, boots with high heels, cowboy and other slip-on type boots is prohibited. Hard-sole, lace-up footwear, zippered boots or boots cinched up with straps which fit snugly about the ankle are adequate. Safety boots are strongly recommended.
- B. No one is allowed within 25' of the centerline of track without specific authorization from the flagman.
- C. All persons working near track while train is passing are to lookout for dragging bands, chains and protruding or shifted cargo.
- D. No one is allowed to cross tracks without specific authorization from the flagman.
- E. All welders and cutting torches working within 25' of track must stop when train is passing.
- F. No steel tape or chain will be allowed to cross or touch rails without permission.

13. GUIDELINES EQUIPMENT ON RAILROAD RIGHT-OF-WAY:

- A. No crane or boom equipment will be allowed to set up to work or park within boom distance plus 15' of centerline of track without specific permission from railroad official and flagman.**
- B. No crane or boom equipment will be allowed to foul track or lift a load over the track without flag protection and track time.**
- C. All employees will stay with their machines when crane or boom equipment is pointed toward track.**
- D. All cranes and boom equipment under load will stop work while train is passing (including pile driving).**
- E. Swinging loads must be secured to prevent movement while train is passing.**
- F. No loads will be suspended above a moving train.**
- G. No equipment will be allowed within 25' of centerline of track without specific authorization of the flagman.**
- H. Trucks, tractors or any equipment will not touch ballast line without specific permission from railroad official and flagman.**
- I. No equipment or load movement within 25' or above a standing train or railroad equipment without specific authorization of the flagman.**
- J. All operating equipment within 25' of track must halt operations when a train is passing. All other operating equipment may be halted by the flagman if the flagman views the operation to be dangerous to the passing train.**
- K. All equipment, loads and cables are prohibited from touching rails.**
- L. While clearing and grubbing, no vegetation will be removed from railroad embankment with heavy equipment without specific permission from the Railroad Engineer and flagman.**
- M. No equipment or materials will be parked or stored on Railroad's property unless specific authorization is granted from the Railroad Engineer.**
- N. All unattended equipment that is left parked on Railroad property shall be effectively immobilized so that it cannot be moved by unauthorized persons.**

- O. All cranes and boom equipment will be turned away from track after each work day or whenever unattended by an operator.

14. INSURANCE:

- A. In addition to any other forms of insurance or bonds required under the terms of the contract and specifications, the Prime Contractor will be required to carry insurance of the following kinds and amounts:

1. Commercial General Liability Insurance having a combined single limit of not less than \$3,000,000 per occurrence for all loss, damage, cost and expense, including attorneys' fees, arising out of bodily injury liability and property damage liability during the policy period. Said policy shall include "explosion, collapse, and underground hazard" ("XCU") coverage, shall be endorsed to name Railroad specified in item A.2.c. below as an additional insured, and shall include a severability of interests provision.

2. Railroad Protective Liability Insurance having a combined single limit of not less than \$3,000,000 each occurrence and \$6,000,000 in the aggregate applying separately to each annual period. If the project involves track over which passenger trains operate, the insurance limits required are not less than a combined single limit of \$5,000,000 each occurrence and \$10,000,000 in the aggregate applying separately to each annual period. Said policy shall provide coverage for all loss, damage or expense arising from bodily injury and property damage liability, and physical damage to property attributed to acts or omissions at the job site.

The standards for the Railroad Protective Liability Insurance are as follows:

The insurer must be rated A- or better by A.M. Best Company, Inc. The policy must be written using one of the following combinations of Insurance Services Office ("ISO") Railroad Protective Liability Insurance Form Numbers:

CG 00 35 01 96 and CG 28 31 10 93; or
CG 00 35 07 98 and CG 28 31 07 98.

The named insured shall read:

Norfolk Southern Railway Company
Three Commercial Place
Norfolk, Virginia 23510-2191
Attn: D. W. Fries, Director Risk Management

The description of operations must appear on the Declarations, must match the project description in this agreement, and must include the appropriate Department project and contract identification numbers.

The job location must appear on the Declarations and must include the city, state, and appropriate highway name/number.

The name and address of the prime contractor must appear on the Declarations.

The name and address of the Department must be identified on the Declarations as the "Involved Governmental Authority or Other Contracting Party."

Other endorsements/forms that will be accepted are:

Broad Form Nuclear Exclusion – Form IL 00 21

30-day Advance Notice of Non-renewal or cancellation

Required State Cancellation Endorsement

Quick Reference or Index Form CL/IL 240

Endorsements/forms that are NOT acceptable are:

Any Pollution Exclusion Endorsement except CG 28 31

Any Punitive or Exemplary Damages Exclusion

Known injury or Damage Exclusion form CG 00 59

Any Common Policy Conditions form

Any other endorsement/form not specifically authorized in item no. 2.h above.

- B. If any part of the work is sublet, similar insurance, and evidence thereof as specified in A.1 above, shall be provided by or on behalf of the subcontractor to cover its operations on Railroad's right of way.
- C. Prior to entry on Railroad right-of-way, the original Railroad Protective Liability Insurance Policy shall be submitted by the Prime Contractor to the Department at the address below for its review and transmittal to the Railroad. In addition, certificates of insurance evidencing the Prime Contractor's and any subcontractors' Commercial General Liability Insurance shall be issued to the Railroad and the Department at the addresses below, and forwarded to the Department for its review and transmittal to the Railroad. The certificates of insurance shall state that the insurance coverage will not be suspended, voided, canceled, or reduced in coverage or limits without (30) days advance written notice to Railroad and the Department. No work will be permitted by Railroad on its right-of-way until it has reviewed and approved the evidence of insurance required herein.

DEPARTMENT:

**Rick Stansel, Director
Div. of Contract Procurement
KY Transportation Cabinet
Room 904 State Office Building
Frankfort, Kentucky 40622**

RAILROAD:

**Mr. D. W. Fries, ARM
Risk Manager
Norfolk Southern Corporation
Three Commercial Place
Norfolk, VA 23510-2191**

15. FAILURE TO COMPLY:

In the event the Contractor violates or fails to comply with any of the requirements of these Special Provisions:

- A. The Railroad Engineer may require that the Contractor vacate Railroad property.**
- B. The Engineer may withhold all monies due the Contractor on monthly statements.**

Any such orders shall remain in effect until the Contractor has remedied the situation to the satisfaction of the Railroad Engineer and the Engineer.

16. PAYMENT FOR COST OF COMPLIANCE:

No separate payment will be made for any extra cost incurred on account of compliance with these special provisions. All such costs shall be included in prices bid for other items of the work as specified in the payment items.

17. TRAINS PER DAY:

The Railroad Engineer has noted that the current Railroad Inventory indicates there are forty (40) trains per day operating at this location at a maximum speed of fifty (50) miles per hour. There are no passenger trains on this line.

**Office of Chief Engineer
Bridges & Structures
Norfolk Southern Corporation
Atlanta, GA 30303
Date: November 10, 2003
File: 117-28767 TMB
Milepost: 146.17 (CNO&TP)**

UTILITY NOTES TO BE INCLUDED IN THE PROPOSAL
SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

Pulaski County
FD04 100 64719 01U
Yosemite – Eubank Road (KY 70)
Item No. 08-201.00

Listed below is an updated list of Utility Company's and contact people.

Mr. Darrell Nave, Construction Supervisor
Charter Communications
Construction Office
5026 S. HWY. 27
Somerset, KY. 42501
(606) 678-9215 Ext. 8

Mr. Allen Anderson, Manager
South Kentucky RECC
P.O. Box 910
Somerset, KY. 42502
(606) 678-4121

Mr. Jackson Denham, Engineer
South Kentucky RECC
P.O. Box 910
Somerset, KY. 42502
(606) 678-4121

Mr. Barry Roberts, Super-OSP Engineering
Alltel Communications
111 S. Main St.
Elizabethtown, KY. 42701-1418
(270) 765-1805

Mr. Victor Howson, Manager
City of Eubank Water
P.O. Box 159
Eubank, KY. 42567-0159

Mr. Darcy Stewart, Engineer
Crawford & Crawford & Stewart Consulting Engineers
P.O. Box 457, 931 E. Lakeshore Drive
Burnside, KY 42519
(606) 561-4475

Mr. Kevin L. Long
Kentucky Utilities Company
500 Stone Road
Lexington, KY 40503-2913
(859) 367-4219

Mr. Mark Abner, Engineer
Kentucky Utilities
180 Substation Street
London, KY. 40743
(606) 877-2836 Ext. 13

The Contractor should note that this may not be a complete list of the utility owners involved. The Contractor is advised to contact the BUD one-call system; however, the Contractor should be aware that not all owners may be a member of the BUD one-call system. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the project area.

COORDINATION WITH UTILITY FACILITY OWNERS

The Contractor will be responsible for contacting all utility facility owners on the subject project to have existing facilities located in the field. The Contractor will coordinate his activities with the utility facility owners to minimize and, where possible, avoid conflicts with utility facilities.

Where conflicts with utility facilities are unavoidable the Contractor will coordinate any necessary relocation work with the facility owner. **There will be no damages awarded for delays caused by necessary utility relocations and/or adjustments.**

PROTECTION OF UTILITY FACILITIES

The location of utility facilities shown on the plans may not be exact or complete. It will be the Contractor's responsibility to locate the utility facilities before excavation by calling the utility facility owner and/or the BUD one-call system. The Contractor shall determine the exact location and elevation of underground utility facilities by hand digging to expose utilities before beginning excavation in the area of underground utility facilities. The cost for repair and any other associated costs for any damage to utility facilities caused by the Contractor's operation will be borne by the Contractor.

Railroad facilities are associated with this project.

NOTE

Charter Communications is 100% complete with their cable television line relocation work. Charter Communications facilities were relocated prior to the road contract letting. The Road Contractor cannot file a claim for delays or interference due to the existing cable television facilities or relocation of them.

South Kentucky RECC is 100% complete with their distribution line relocation work. South Kentucky RECC's facilities were relocated prior to the road contract letting. The Road Contractor cannot file a claim for delays or interference due to the existing electric facilities or relocation of them.

Alltel Communications, Inc. is 100% complete with their telephone line relocation work. Alltel Communications facilities were relocated prior to the road contract letting. The Road Contractor cannot file a claim for delays or interference due to the existing telephone facilities or relocation of them.

City of Eubank is 100% complete with their water line relocation work. City of Eubank facilities were relocated prior to the road contract letting. The Road Contractor cannot file a claim for delays or interference due to the existing water line facilities or relocation of them.

Kentucky Utilities Company is 100% complete with their distribution line relocation work. Kentucky Utilities facilities were relocated prior to the road contract letting. The Road Contractor cannot file a claim for delays or interference due to the existing electric facilities or relocation of them.

PART II

SPECIAL PROVISIONS APPLICABLE TO PROJECT

SPECIAL PROVISION NO.

TITLE

69 Embankment at End Bent Structure (1-1-00)

attached

SPECIAL PROVISION FOR EMBANKMENT AT BRIDGE END BENT STRUCTURES

This Special Provision will apply when indicated on the plans or in the proposal. Section references herein are to the Department's 2000 Standard Specifications for Road and Bridge Construction. Apply the metric figures for projects designed in metric and English figures for projects designed in English.

1.0 DESCRIPTION. Construct a pile core and granular embankment at end bent structures. Construct the pile core and granular embankment according to the requirements of this Special Provision and the Plans, Standard Drawings, and the 1998 Standard Specifications. Construct structure granular backfill and granular embankment, as the Plans require.

2.0 MATERIALS.

2.1 Pile Core. Conform to the Standard Specifications for embankment materials and, in addition, ensure the material is free of boulders larger than 75-mm (3-inch) maximum dimension or any other obstructions which would interfere with the driving of piles. The Department will permit Granular Embankment material provided the 75-mm (3-inch) maximum dimension is not exceeded.

When the plans specify core construction with granular embankment material, ensure that no material within the limits of the core exceeds the 75-mm (3-inch) maximum dimension.

2.2 Granular Embankment. Conform to Subsection 805.10. When Granular Embankment materials are erodible or unstable according to Subsection 805.12 Part G), use the Special Construction Methods found in 3.2.

2.3 Structure Granular Backfill. Conform to Subsection 805.11.

2.4 Geotextile Fabric. Conform to Table I in Section 843.

3.0 CONSTRUCTION.

3.1 General. Construct roadway embankments at end bents according to Section 206 and in accordance with the Plans and Standard Drawings for full embankment section. After constructing the embankment, excavate for the end bent cap, drive piling, place the mortar bed, construct the end bent, and complete the embankment to finish grade according to the construction sequence shown on the Plans or Standard Drawings and as specified hereinafter.

After piles are driven (see design drawings), slope the bottom of the excavation towards the ends of the trench as noted on the plans for drainage. Using a separate pour, place concrete mortar, or any class concrete, to provide a base for forming and placing the cap. Place side forms for the end bent after the

mortar has set sufficiently to support workmen and forms without being disturbed.

Install 100-mm (4-inch) perforated pipe according to the plans. In the event slope protection extends above the elevation of the perforated pipe, extend the pipe through the slope protection.

After placing the end bent cap and removing adjacent forms, fill the excavation with structure granular backfill material to the level of the berm prior to placing beams for the bridge. After completing the end bent backwall, or after completing the span end wall, place the structure granular backfill to subgrade elevation. If the original excavation is enlarged, fill the entire volume with compacted structure granular backfill at no expense to the Department. Do not place backfill before removing adjacent form work. Place structure granular backfill material in trench ditches at the ends of the excavation.

Do not allow individual fragments larger than 100 mm (4 inches) in any dimension within 900 mm (36 inches) of the structure.

Tamp the backfill with hand tampers, pneumatic tampers, or other means the Engineer approves. Thoroughly compact the backfill under the overhanging portions of the structure to ensure that the backfill is in intimate contact with the sides of the structure.

Place and compact the pile core, granular embankment, and structure granular backfill according to the applicable density requirements for the project.

Do not apply seeding, sodding, or other vegetation to the exposed granular embankment.

3.2 Special Construction Methods. Erodible or unstable materials may erode even when protected by riprap or channel lining; use the special construction method described below when using these materials.

Use fine aggregates or friable sandstone granular embankment at “dry land” structures only. Do not use them at stream crossings or locations subject to flood waters.

When using material having 50 percent or more passing the 4.75 mm sieve (No. 4) for embankment, install 200 mm (8 inch) perforated underdrain pipe at or near the elevation of the original ground in the approximate locations depicted on the standard drawing and as the Engineer directs, to ensure positive drainage of the embankment. Wrap the perforated pipe with geotextile fabric of a type recommended by the pipe manufacturer. Construct headwalls on the outlet end of each perforated pipe.

For erodible or unstable materials having 50 percent or more passing the 4.75 mm sieve (No. 4), protect with geotextile fabric. Extend the fabric from the original ground to the top of slope over the entire area of the embankment slopes on each side of, and in front of, the end bent. Cover the fabric with at least 300 mm (one foot) of non-erodible material.

For erodible or unstable materials having 50 percent or less passing a 4.75 mm sieve (No. 4), cover with at least 300 mm (one foot) of non-erodible material.

Where erodible or unstable granular embankment will be protected by

riprap or channel lining, place geotextile fabric between the embankment and the specified slope protection.

4.0 MEASUREMENT.

4.1 Pile Core. The Department will measure the quantity of material for the pile core as Roadway Excavation, Embankment-in-Place, or Borrow Excavation, as applicable. The Department will not measure overhaul of material for the pile core or for any necessary manipulation such as stockpiling or double hauling for payment and will consider it incidental to the pile core construction.

4.2 Granular Embankment. The Department will measure the quantity in cubic meters (cubic yards) using the design quantity, increased or decreased by authorized adjustments as specified in Subsections 204.04.01 and 204.04.02. The Department will deduct the volume of the pile core from the quantity of Granular Embankment.

The Department will not measure furnishing and placing 200-mm perforated pipe and headwalls placed due to the use of erodible material for payment and will consider them incidental to the Granular Embankment.

The Department will not measure for payment any special construction caused by using erodible or unstable materials and will consider it incidental to the Granular Embankment regardless of whether the erodible or unstable material was specified or permitted.

4.3 Structure Granular Backfill. The Department will measure the quantity in cubic meters (cubic yards) using the design quantity, increased or decreased by authorized adjustments as specified in Subsections 204.04.01 and 204.04.02. The Department will not measure any additional material required for backfill outside the limits shown on the Plans and Standard Drawings for payment and will consider it incidental to the work.

When following construction sequence "A", as shown on the Standard Drawings, the Department will not measure structure excavation at the end bent for payment and will consider it incidental to Structure Granular Backfill.

The Department will not measure furnishing and placing the 100-mm (4-inch) perforated underdrain pipe for payment and will consider it incidental to the Structure Granular Backfill.

4.4 Geotextile Fabric. When the plans require geotextile fabric to be placed outside the limits of granular embankment, then measurement and payment for the fabric outside the limits of granular embankment will be in accordance with requirements elsewhere in the Contract.

4.5 End Bent. The Department will measure the quantities according to the Contract. The Department will not measure furnishing and placing the 50-mm (2-inch) mortar or concrete bed for payment and will consider it incidental

to the end bent construction.

4.6 Roadway Excavation. See Subsection 204.04.

4.7 Embankment-in-Place. See Subsection 206.05.

4.8 Borrow Excavation. See Subsection 205.05.

5.0 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

| <u>Code</u> | <u>Pay Item</u> | <u>Pay Unit</u> |
|-------------|-----------------------------|---------------------------|
| 2200 | Roadway Excavation | See Section 204.05 |
| 2230 | Embankment-in-Place | See Section 206.05 |
| 2210 | Borrow Excavation | See Section 205.05 |
| 2231 | Structure Granular Backfill | Cubic Meter (Cubic Yards) |
| ---- | Granular Embankment | Cubic Meter (Cubic Yards) |

The Department will consider payment as full compensation for all work required in this provision.

January 1, 2000

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS
(Copies of each Attached)

1. Schedule of Minimum Wages Established for the Project.
2. Labor and Wage Requirements, applicable to other than Federal-Aid System Contracts. (Rev. 2-16-95)
3. Executive Branch Code of Ethics.

**TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION**

**SHEET ONE
LETTING: 12-12-2003**

PROJECT WAGE RATES

PULASKI COUNTY, FD04 100 0070 002-003

The Yosemite-Eubank Road (KY 70)

Grade, Drain and Asphalt Surface

| CRAFTS | BASIC HOURLY RATES | FRINGE BENEFIT PAYMENTS COMBINED |
|---------------------|-----------------------------------|---|
| Boilermakers | 24.65..... | 12.94 |
| Bricklayers..... | 20.35..... | 7.80 |
| Stone Mason..... | 18.95..... | 7.80 |
| Carpenters | 18.85..... | 7.80 |
| Cement Masons | 18.70 | 7.80 |
| Electricians | *22.60 | 6.97 |

*When workmen are required to work from bosum chairs, trusses, stacks, tanks, scaffolds, catwalks, radio and T.V. towers, structural steel (open, unprotected, unfloored raw steel), and bridges or similar hazardous locations where workmen are subject to a direct fall, except where using JLG's and bucket trucks up to 75 feet: Add 25% to workman's base rate for 50 to 75 feet, and add 50% to workman's base rate for over 75 feet.

| | | |
|---|-------------|-------|
| Ironworkers: Structural..... | 18.95..... | 7.80 |
| Ironworkers: Reinforcing..... | 18.75..... | 7.80 |
| Painters: | | |
| All Excluding Bridges | 19.92..... | 9.57 |
| Bridges | 23.92..... | 10.07 |
| Piledrivers..... | 18.50 | 7.80 |
| Plumbers..... | 22.52..... | 7.80 |
| Sheet Metal | 20.40..... | 7.80 |
| Welders- Receive rate for craft in which welding is incidental. | | |

LABORERS:

| | | |
|--|------------------------------|-------|
| General laborer, flagman, steam jenny. | BASE RATE | 16.90 |
| | FRINGE BENEFITS | 7.80 |

| | | |
|--|------------------------------|-------|
| Batch truck dumper, deck hand or scow man. | BASE RATE | 17.15 |
| | FRINGE BENEFITS | 7.80 |

Power driven tool operator of the following: wagon drill, chain saw, sand blaster, concrete chipper, pavement breaker, vibrator, power wheelbarrow, power buggy, sewer pipe layer, bottom men, dry cement handler, concrete rubber, mason tender.

| | |
|------------------------------|-------|
| BASE RATE | 17.25 |
| FRINGE BENEFITS | 7.80 |

**TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION**

PROJECT WAGE RATES

SHEET TWO 12-12-2003

PULASKI COUNTY, FD04 100 0070 002-003

LABORERS: (continued)

| | | |
|--|------------------------------|-------|
| Asphalt lute and rakerman, side rail setter. | BASE RATE | 17.30 |
| | FRINGE BENEFITS | 7.80 |
| Gunnite nozzle man. | BASE RATE | 17.40 |
| | FRINGE BENEFITS | 7.80 |
| Tunnel laborer (free air). | BASE RATE | 17.45 |
| | FRINGE BENEFITS | 7.80 |
| Tunnel mucker (free air), gunite operator. | BASE RATE | 17.50 |
| | FRINGE BENEFITS | 7.80 |
| Hand blade operator | BASE RATE | 17.65 |
| | FRINGE BENEFITS | 7.80 |
| Tunnel miner, blaster and driller (free air). | BASE RATE | 17.85 |
| | FRINGE BENEFITS | 7.80 |
| Caisson worker | BASE RATE | 18.40 |
| | FRINGE BENEFITS | 7.80 |
| Powderman | BASE RATE | 18.50 |
| | FRINGE BENEFITS | 7.80 |
| Drill operator of percussion type drills which are both powered and propelled by an independent air supply. | BASE RATE | 19.70 |
| | FRINGE BENEFITS | 7.80 |

TRUCK DRIVERS AND RELATED CLASSIFICATIONS:

| | | |
|--|------------------------------|-------|
| Truck helper and warehouseman. | BASE RATE | 17.15 |
| | FRINGE BENEFITS | 7.80 |
| Driver, winch truck and A-Frame when used in transporting materials. | BASE RATE | 17.25 |
| | FRINGE BENEFITS | 7.80 |
| Driver (semi-trailer or pole trailer), driver (dump truck, tandem axle), driver of distributor. | BASE RATE | 17.35 |
| | FRINGE BENEFITS | 7.80 |

TRANSPORTATION CABINET

**DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION**

PROJECT WAGE RATES

SHEET THREE 12-12-2003

PULASKI COUNTY, FD04 100 0070 002-003

TRUCK DRIVERS AND RELATED CLASSIFICATIONS: (continued)

| | | |
|--|------------------------------|-------|
| Driver on mixer trucks (all types). | BASE RATE | 17.40 |
| | FRINGE BENEFITS | 7.80 |
| Truck mechanic | BASE RATE | 17.45 |
| | FRINGE BENEFITS | 7.80 |
| Driver (3 tons and under), tire changer and truck mechanic helper. | BASE RATE | 17.48 |
| | FRINGE BENEFITS | 7.80 |
| Driver on pavement breakers. | BASE RATE | 17.50 |
| | FRINGE BENEFITS | 7.80 |
| Driver (over 3 tons), driver (truck mounted rotary drill). | BASE RATE | 17.69 |
| | FRINGE BENEFITS | 7.80 |
| Driver, Euclid and other heavy earth moving equipment and Low Boy. | BASE RATE | 18.26 |
| | FRINGE BENEFITS | 7.80 |
| Greaser on greasing facilities. | BASE RATE | 18.35 |
| | FRINGE BENEFITS | 7.80 |

OPERATING ENGINEERS:

Group A:

Auto patrol, batcher plant, bituminous paver, cable-way, clamshell, concrete mixer (21 cu. ft. or over), concrete pump, crane, crusher plant, derrick, derrick boat, ditching and trenching machine, dragline, dredge engineer, elevator (regardless of ownership when used for hoisting any building material), elevating grader and all types of loaders, hoe-type machine, hoisting engine, locomotive, LeTourneau or carry-all scoop, bulldozer, mechanic, orangepeel bucket, piledriver, power blade, roller (bituminous), roller (earth), roller (rock), scarifier, shovel, tractor shovel, truck crane, well points, winch truck, push dozer, grout pump, high lift, fork lift (regardless of lift height), all types of boom cats, multiple operator, core drill, tow or push boat, A-Frame winch truck, concrete paver, gradeall, hoist, hyster, material pump, pumpcrete, ross carrier, sheep foot, sideboom, throttle-valve man, rotary drill, power generator, mucking machine, rock spreader attached to equipment, scoopmobile, KeCal loader, tower cranes (French, German and other types), hydrocrane, tugger, backfiller guries, self-propelled compactor, self-contained hydraulic percussion drill.

BASE RATE 20.25
FRINGE BENEFITS 7.80

**TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION**

PROJECT WAGE RATES

SHEET FOUR

12-12-2003

PULASKI COUNTY, FD04 100 0070 002-003

OPERATING ENGINEERS: (continued)

Group B:

All air compressors (200 cu. ft. per min. or greater capacity), bituminous mixer, concrete mixer (under 21 cu. ft.), welding machine, form grader, tractor (50 H.P. and over), bull float, finish machine, outboard motor boat, brakeman, mechanic helper, whirley oiler, tractair and road widening trencher, articulating trucks.

BASE RATE 18.50

FRINGE BENEFITS 7.80

Group B2:

Greaser on grease facilities servicing heavy equipment.

BASE RATE 18.35

FRINGE BENEFITS 7.80

Group C:

Bituminous distributor, cement gun, conveyor, mud jack, paving joint machine, pump, tamping machine, tractors (under 50 H.P.), vibrator, oiler, air compressors (under 200 cu. ft. per min. capacity), concrete saw, burlap and curing machine, hydro seeder, power form handling equipment, deckhand oiler, hydraulic post driver.

BASE RATE 17.76

FRINGE BENEFITS 7.80

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

No laborer, workman or mechanic shall be paid at a rate less than that of the General Laborer except those classified as bona fide apprentices registered with the Kentucky State Apprenticeship Supervisor unless otherwise specified in this schedule of wage rates.

These rates are listed pursuant to the Kentucky Determination No. CR-03-II HWY dated July 11, 2003. Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

**TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION**

PROJECT WAGE RATES

SHEET FIVE 12-12-2003

PULASKI COUNTY, FD04 100 0070 002-003

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

TO: EMPLOYERS/EMPLOYEES

PREVAILING WAGE SCHEDULE:

The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.

OVERTIME:

Overtime is to be paid after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wages. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. Wage violations or questions should be directed to the designated Engineer or to the undersigned.

Rick Stansel, Director
Division of Contract Procurement
Frankfort, Kentucky 40622

TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS

LABOR AND WAGE REQUIREMENTS
APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS

- I. Application
- II. Nondiscrimination of Employees (KRS 344)
- III. Payment of Predetermined Minimum Wages
- IV. Statements and Payrolls

I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

II. NONDISCRIMINATION OF EMPLOYEES

AN ACT OF THE KENTUCKY
GENERAL ASSEMBLY TO PREVENT
DISCRIMINATION IN EMPLOYMENT
KRS CHAPTER 344
EFFECTIVE JUNE 16, 1972

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy). The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin is a bona fide occupational qualification for employment.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age (between forty and seventy), in admission to, or employment in

any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

III. PAYMENT OF PREDETERMINED
MINIMUM WAGES

1. These special provisions are supplemented elsewhere in the contract by special provisions which set forth certain predetermined minimum wage rates. The contractor shall pay not less than those rates.

2. The minimum wage determination schedule shall be posted by the contractor, in a manner prescribed by the Department of Highways, at the site of the work in prominent places where it can be easily seen by the workers.

IV. STATEMENTS AND PAYROLLS

1. All contractors and subcontractors affected by the terms of KRS 337.505 to 337.550 shall keep full and accurate payroll records covering all disbursements of wages to their employees to whom they are required to pay not less than the prevailing rate of wages. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of one (1) year from the date of completion of this contract.

2. The payroll records shall contain the name, address and social security number of each employee, his correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid.

3. The contractor shall make his daily records available at the project site for inspection by the State Department of Highways contracting office or his authorized representative.

Periodic investigations shall be conducted as required to assure compliance with the labor provisions of the contract. Interrogation of employees and officials of the contractor shall be permitted during working hours.

Aggrieved workers, Highway Managers, Assistant District Engineers, Resident Engineers and Project Engineers shall report all complaints and violations to the Division of Contract Procurement.

The contractor shall be notified in writing of apparent violations. The contractor may correct the reported violations and notify the Department of Highways of the action taken or may request an informal hearing. The request for hearing shall be in writing within ten (10) days after receipt of the notice of the reported violation. The contractor may submit records and information which will aid in determining the true facts relating to the reported violations.

Any person or organization aggrieved by the action taken or the findings established as a result of an informal hearing by the Division of Contract Procurement may request a formal hearing.

4. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payments, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.

5. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.

6. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.

7. Every employee on the work covered by this contract shall be permitted to lodge, board, and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.

8. Every employee on the project covered by this contract shall be an employee of either the prime contractor or an approved subcontractor.

9. No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.

10. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other equipment from individuals.

No Covered employee may be employed on the work except in accordance with the classification set forth in the schedule mentioned above; provided, however, that in the event additional classifications are required, application shall be made by the contractor to the Department of Highways and (1) the Department shall request appropriate classifications and rates from the proper agency, or (2) if there is urgent need for additional classification to avoid undue delay in the work, the contractor may employ such workmen at rates deemed comparable to rates established for similar classifications provided he has made written application through the Department of Highways, addressed to the proper agency, for the supplemental rates. The contractor shall retroactively adjust, upon receipt of the supplemental rates schedule, the wages of any employee paid less than the established rate and may adjust the wages of any employee overpaid.

11. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic in any work-week in which he is employed on such work, to work in excess of eight hours in any calendar day or in excess of forty hours in such work-week unless such laborer or mechanic receives compensation at a rate not less than one and one half times his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such work-week. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. This agreement shall be in writing and shall be executed prior to the employee working in excess of eight (8) hours, but not more than ten (10) hours, in any one (1) calendar day.

12. Payments to the contractor may be suspended or withheld due to failure of the contractor

to pay any laborer or mechanic employed or working on the site of the work, all or part of the wages required under the terms of the contract. The Department may suspend or withhold payments only after the contractor has been given written notice of the alleged violation and the contractor has failed to comply with the wage determination of the Department of Highways.

13. Contractors and subcontractors shall comply with the sections of Kentucky Revised Statutes, Chapter 337 relating to contracts for Public Works.

Revised 2-16-95

EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (6) provides:

No present or former public servant shall, within six (6) months of following termination of his office or employment, accept employment, compensation or other economic benefit from any person or business that contracts or does business with the state in matters in which he was directly involved during his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved in state government. This subsection shall not prohibit the performance of ministerial functions, including, but not limited to, filing tax returns, filing applications for permits or licenses, or filing incorporation papers.

KRS 11A.040 (8) states:

A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

PART IV

INSURANCE

The Contractor shall carry the following insurance in addition to the insurance required by law:

1. Contractor's Public Liability Insurance not less than \$100,000.00 for damages arising out of bodily injuries to or death to one person. Not less than \$300,000.00 for damages arising out of bodily injuries to or death to two or more persons.
2. Contractor's Property Damages Liability Insurance. Not less than \$100,000.00 for all damages arising out of injury or destruction of property in any one accident. Not less than \$300,000.00 for all damages during the policy period.
3. Contractor's Protective Public Liability and Property Damage Insurance. The contractor shall furnish evidence with respect to operations performed for him by subcontractors that he carries in his own behalf for the above stipulated amounts.
4. The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
 - a. "policy contains no deductible clauses."
 - b. "policy contains _____ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."
5. WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.
6. RAILROAD PROTECTIVE LIABILITY INSURANCE. The policy shall name the railroad as the Named Insured and the limit of liability shall be not less than \$3,000,000 combined single limit for Bodily Injury and Property Damage per occurrence, subject to a \$6,000,000 aggregate limit per annual policy period. If the project involves a rail facility where passenger trains operate, the insurance limits required that are not less than a combined single limit of \$5,000,000 each occurrence and \$10,000,000 in the aggregate applying separately to each annual period. The original of this policy must be submitted for the railroad's approval and filing prior to the commencement of work on this project.

PART V

STATEMENT OF INCOMPLETED WORK

1. Status of Active Prime Contracts.

Attached

1. STATUS OF ALL INCOMPLETED PRIME CONTRACTS

All active prime contracts must be reported. This includes prime contracts with public and private owners and joint-ventured contracts. The names of the joint venturers must be shown when reporting these projects. A machine or typed listing reporting the status of each contract is acceptable when attached to this report; however, the total amounts on the itemized listing must be reported in the space provided below:

| CONTRACT WITH | PROJECT IDENTIFICATION | PRIME CONTRACT AMOUNT | EARNINGS THROUGH LAST APPROVED ESTIMATE | TOTAL AMOUNT OF WORK REMAINING |
|--|------------------------|-----------------------|---|--------------------------------|
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| | | | | |
| TOTAL (Attach Summary if not itemized above) | | \$ | \$ | \$ |

PART VI

BID ITEMS

TRANSPORTATION CABINET

Department of Highways

FRANKFORT, KY 40622

Sheet No: 1

PULASKI COUNTY

FD04 100 0070 002-003

PCN: 03-0776

Letting: 12/12/2003

THE BIDDER MUST MAKE THE EXTENSIONS AND ADDITIONS
SHOWING TOTAL AMOUNT BID USING FIGURES ONLY

| Item No. | Code No. | Item | Approximate Quantity | Unit | Unit Price Dollars | Amount Dollars |
|----------|----------|--------------------------------|----------------------|--------|--------------------|----------------|
| | | BRIDGE AND CULVERT QUANTITIES | | | . | . |
| 1 | 2231 | STRUCTURE GRANULAR BACKFILL | 135.00 | CU YD | . | . |
| 2 | 8100 | CONCRETE-CLASS A | 342.90 | CU YD | . | . |
| 3 | 8020 | CRUSHED AGGREGATE SLOPE PROT | 508.00 | TON | . | . |
| 4 | 8050 | PILES-STEEL HP14X73 | 825.00 | LIN FT | . | . |
| 5 | 7389 | CONCRETE-CLASS AA HPC | 506.40 | CU YD | . | . |
| 6 | 8033 | TEST PILES | 138.60 | LIN FT | . | . |
| 7 | 8151 | STEEL REINF-EPOXY COATED | 96,704.00 | LB | . | . |
| 8 | 8150 | STEEL REINFORCEMENT | 56,103.00 | LB | . | . |
| 9 | 8046 | PILES-STEEL HP12X53 | 707.60 | LIN FT | . | . |
| 10 | 8672 | PRECAST PC BOX BEAM SB42 | 1,317.00 | LIN FT | . | . |
| 11 | 8094 | PILE POINTS-12 INCH | 54.00 | EACH | . | . |
| 12 | 8095 | PILE POINTS-14 INCH | 19.00 | EACH | . | . |
| 13 | 3299 | ARMORED EDGE FOR CONCRETE | 85.30 | LIN FT | . | . |
| 14 | 8003 | FOUNDATION PREPARATION | 1.00 | LP SUM | . | . |
| | | ROADWAY QUANTITIES | | | . | . |
| 15 | 2230 | EMBANKMENT IN PLACE | 94,765.00 | CU YD | . | . |
| 16 | 2242 | WATER | 400.00 | M GAL | . | . |
| 17 | 8100 | CONCRETE-CLASS A | 6.06 | CU YD | . | . |
| 18 | 8150 | STEEL REINFORCEMENT | 46.00 | LB | . | . |
| 19 | 6514 | PAVE STRIPING-PERM PAINT-4 IN | 21,200.00 | LIN FT | . | . |
| 20 | 2562 | SIGNS | 224.00 | SQ FT | . | . |
| 21 | 2351 | GUARDRAIL-STEEL W BEAM-S FACE | 2,159.00 | LIN FT | . | . |
| 22 | 2360 | GUARDRAIL TERMINAL SECT NO 1 | 6.00 | EACH | . | . |
| 23 | 2367 | GUARDRAIL END TREATMENT TYPE 1 | 2.00 | EACH | . | . |
| 24 | 2363 | GUARDRAIL CON TO BR END TYPE A | 4.00 | EACH | . | . |
| 25 | 2091 | REMOVE PAVEMENT | 1,179.00 | SQ YD | . | . |

TRANSPORTATION CABINET

Department of Highways

FRANKFORT, KY 40622

Sheet No: 2

PULASKI COUNTY

FD04 100 0070 002-003

PCN: 03-0776

Letting: 12/12/2003

THE BIDDER MUST MAKE THE EXTENSIONS AND ADDITIONS
SHOWING TOTAL AMOUNT BID USING FIGURES ONLY

| Item No. | Code No. | Item | Approximate Quantity | Unit | Unit Price Dollars | Amount Dollars |
|----------|----------|--------------------------------|----------------------|--------|--------------------|----------------|
| 26 | 0461 | CULVERT PIPE-15 INCH | 86.00 | LIN FT | . | . |
| 27 | 0462 | CULVERT PIPE-18 INCH | 305.00 | LIN FT | . | . |
| 28 | 0464 | CULVERT PIPE-24 INCH | 150.00 | LIN FT | . | . |
| 29 | 0440 | ENTRANCE PIPE-15 INCH | 180.00 | LIN FT | . | . |
| 30 | 1000 | PERFORATED PIPE-4 INCH | 60.00 | LIN FT | . | . |
| 31 | 1010 | NON-PERFORATED PIPE-4 INCH | 30.00 | LIN FT | . | . |
| 32 | 1028 | PERF PIPE HEADWALL TY 3-4 INCH | 6.00 | EACH | . | . |
| 33 | 1480 | CURB BOX INLET TYPE B | 2.00 | EACH | . | . |
| 34 | 1490 | DROP BOX INLET TYPE 1 | 1.00 | EACH | . | . |
| 35 | 1450 | S & F BOX INLET-OUTLET-18 INCH | 3.00 | EACH | . | . |
| 36 | 1451 | S & F BOX INLET-OUTLET-24 INCH | 1.00 | EACH | . | . |
| 37 | 2692 | SETTLEMENT PLATFORM | 1.00 | EACH | . | . |
| 38 | 3340 | STEEL PIPE-2 1/2 INCH | 40.00 | LIN FT | . | . |
| 39 | 3343 | STEEL PIPE-4 INCH | 40.00 | LIN FT | . | . |
| 40 | 5985 | SEEDING AND PROTECTION | 66,867.00 | SQ YD | . | . |
| 41 | 5953 | TEMP SEEDING AND PROTECTION | 6,867.00 | SQ YD | . | . |
| 42 | 5989 | SPECIAL SEEDING CROWN VETCH | 12,137.00 | SQ YD | . | . |
| 43 | 5966 | TOPDRESSING FERTILIZER | 4.09 | TON | . | . |
| 44 | 5950 | EROSION CONTROL BLANKET | 5,350.00 | SQ YD | . | . |
| 45 | 2703 | SILT TRAP TYPE A | 15.00 | EACH | . | . |
| 46 | 2706 | CLEAN SILT TRAP TYPE A | 30.00 | EACH | . | . |
| 47 | 2705 | SILT CHECK | 36.00 | EACH | . | . |
| 48 | 2708 | CLEAN SILT CHECK | 72.00 | EACH | . | . |
| 49 | 2483 | CHANNEL LINING CLASS II | 135.00 | TON | . | . |
| 50 | 2484 | CHANNEL LINING CLASS III | 836.00 | TON | . | . |
| 51 | 2434 | R/W MARKER RURAL TYPE 1 | 31.00 | EACH | . | . |
| 52 | 2437 | R/W MARKER MUNICIPAL TYPE 1 | 4.00 | EACH | . | . |

TRANSPORTATION CABINET

Department of Highways

FRANKFORT, KY 40622

Sheet No: 3

PULASKI COUNTY

FD04 100 0070 002-003

PCN: 03-0776

Letting: 12/12/2003

THE BIDDER MUST MAKE THE EXTENSIONS AND ADDITIONS
SHOWING TOTAL AMOUNT BID USING FIGURES ONLY

| Item No. | Code No. | Item | Approximate Quantity | Unit | Unit Price Dollars | Amount Dollars |
|-------------|-------------|---------------------------------------|-------------------------|--------|-----------------------|-------------------|
| 53 | 1891 | ISLAND HEADER CURB TYPE 2 | 100.00 | LIN FT | . | . |
| 54 | 2585 | EDGE KEY | 45.00 | LIN FT | . | . |
| 55 | 0001 | D G A BASE | 7,252.00 | TON | . | . |
| 56 | 0220 | CL1 ASPH BASE 0.75D PG64-22 | 8,240.00 | TON | . | . |
| 57 | 0300 | CL1 ASPH SURF 0.38D PG64-22 | 1,494.00 | TON | . | . |
| 58 | 2545 | CLEARING AND GRUBBING (17.5 ACRES) | 1.00 | LP SUM | . | . |
| 59 | 2726 | STAKING | 1.00 | LP SUM | . | . |
| 60 | 2650 | MAINTAIN AND CONTROL TRAFFIC | 1.00 | LP SUM | . | . |
| 61 | 2569 | DEMOBILIZATION | 1.00 | LP SUM | . | . |
| 62 | | TOTAL BID | | | \$ | . |

PART VII

CERTIFICATIONS

- | | | |
|----|---|----------|
| 1. | Provisions Relative to Senate Bill 258 (1994) | Attached |
| 2. | Non-Collusion Certification | Attached |
| 3. | Certification of Bid Proposal | Attached |

PROVISIONS RELATIVE TO SENATE BILL 258 (1994)

During the performance of the contract, the contractor agrees to comply with applicable provisions of:

1. KRS 136 Corporation and Utility Taxes
2. KRS 139 Sale and Use Taxes
3. KRS 141 Income Taxes
4. KRS 337 Wages and Hours
5. KRS 338 Occupational Safety and Health of Employees
6. KRS 341 Unemployment Compensation
7. KRS 342 Workers Compensation

Any final determinations of a violation by the contractor within the previous five (5) years pursuant to the applicable statutes above are revealed as follows:

NON-COLLUSION CERTIFICATION

COMMONWEALTH OF KENTUCKY
COUNTY _____
PROJECT NO. _____

I, _____, _____, under
(Name of officer signing certification) (Title)

penalty of perjury under the laws of the United States, do hereby certify that

(Insert name of Individual, Joint Venture, Co-partnership, or Corporation submitting bid)
its agent, officers or employees have not directly or indirectly entered into any
agreement, participated in any collusion, or otherwise taken action in restraint of free
competitive bidding in connection with this proposal.

(Signature)

(Title)

REVISED: 8-23-89

NON-COLLUSION CERTIFICATION

COMMONWEALTH OF KENTUCKY
COUNTY _____
PROJECT NO. _____

I, _____, _____, under
(Name of officer signing certification) (Title)

penalty or perjury under the laws of the United States, do hereby certify that

(Insert name of Individual, Joint Venture, Co-partnership, or Corporation submitting bid)
its agent, officers or employees have not directly or indirectly entered into any
agreement, participated in any collusion, or otherwise taken action in restraint of free
competitive bidding in connection with this proposal.

(Signature)

(Title)

REVISED: 8-23-89

CERTIFICATION OF BID PROPOSAL

We (I) propose to furnish all labor, equipment and materials necessary to construct and/or improve the subject project in accordance with the plans, the Transportation Cabinet's Standard Specifications for Road and Bridge Construction, current edition, special provisions, notes applicable to the project as indicated herein and all addenda issued on this project subsequent to purchase of proposal.

We (I) attach a bid proposal guaranty as provided in the special provisions in an amount not less than 5% of the total bid. We agree to execute a contract in accordance with this bid proposal within 15 calendar days after the receipt of the notice of award for the project.

We (I) have examined the site of proposed work, project plans, specifications, special provisions, and notes applicable to the project referred to herein. We understand that the quantities shown herein are estimated quantities subject to increase or decrease as provided in the specifications.

Name of Contracting Firm

BY:

Authorized Agent Title

Address City State Zip Code

Telephone Number

When two or more organizations bid as a joint venture, enter names of each organization and an authorized agent for each organization must sign above.